

BOREHOLE No.: TH03

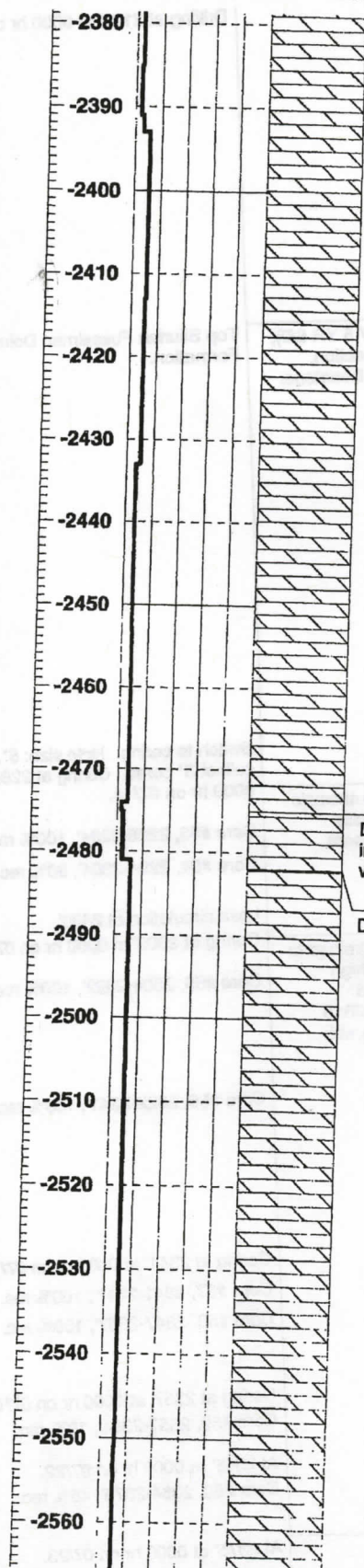
Page 13 of 16

DEPTH (feet)	DRILL RATE (feet/hour) 0 200	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
-2200				Drilling at 2192' at 0000 hr on 07/13.
-2210				
-2220				
-2230				
-2240			DOLOMITE: dark gray (7.5 YR 4/6) to gray (7.5 YR 6/0), subangular, platy slight to moderate HCL reaction, slight red stain with Alizarin, interbedded with limestone.	Top Silurian Fusselman Dolomite Formation.
-2250				
-2260				
-2270				
-2280				
-2290			DOLOMITE: light to dark gray, fine to medium to sucrosic grained, vuggy, fractured, fractures filled with calcite and dolomite, brecciated, secondary porosity present.	Switch to coring. Hole size: 5", collect 3" cores. Coring at 2286' at 0000 hr on 07/14.
-2300				Core #53, 2286-2294', 100% rec. Core #54, 2294-2304', 80% rec.
-2310			DOLOMITE: medium to dark gray, dense, fine grained to slightly sucrosic, broken and fractured in parts, high angle planes present, trace pyrite, calcite healed fractures present, slightly vuggy from 2304 ft to 2318 ft, very vuggy from 2343 ft to 2346 ft, less vuggy with depth.	Lose circulation at 2300'. Coring at 2303' at 0000 hr on 07/15.
-2320				Core #55, 2304-2322', 100% rec.
-2330				Core #56, 2322-2341', 100% rec.
-2340				
-2350				Coring at 2341' at 0000 hr on 07/16. Core #57, 2341-2347', 100% rec. Core #58, 2347-2357', 100% rec.
-2360				
-2370				Coring at 2357' at 0000 hr on 07/17. Core #59, 2357-2364', 10% rec. At 2365' at 0000 hr on 07/22. Core #60, 2364-2375', 45% rec.
			DOLOMITE: Drill blind, no returns.	At 2375' at 0000 hr on 07/23.

BOREHOLE No.: TH03

Page 14 of 16

DEPTH (feet)	DRILL RATE (feet/hour)	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
	0 200			



Switch to rotary drilling. Hole size - 5 1/8".

At 2474' at 0000 hr on 07/24.

DOLOMITE: gray, hard, blocky at top and bottom, broken in middle section, several high angle fractures, some vugs present, vugs are smaller than previous.

Switch to coring. Hole size 5", core size 3".

Core #61, 2475-2482', 100% rec.

DOLOMITE: Drill blind, no returns.

Switch to rotary drilling. Hole size - 5 1/8".

Drilling at 2551' at 0000 hr on 07/25.

BOREHOLE No.: TH03

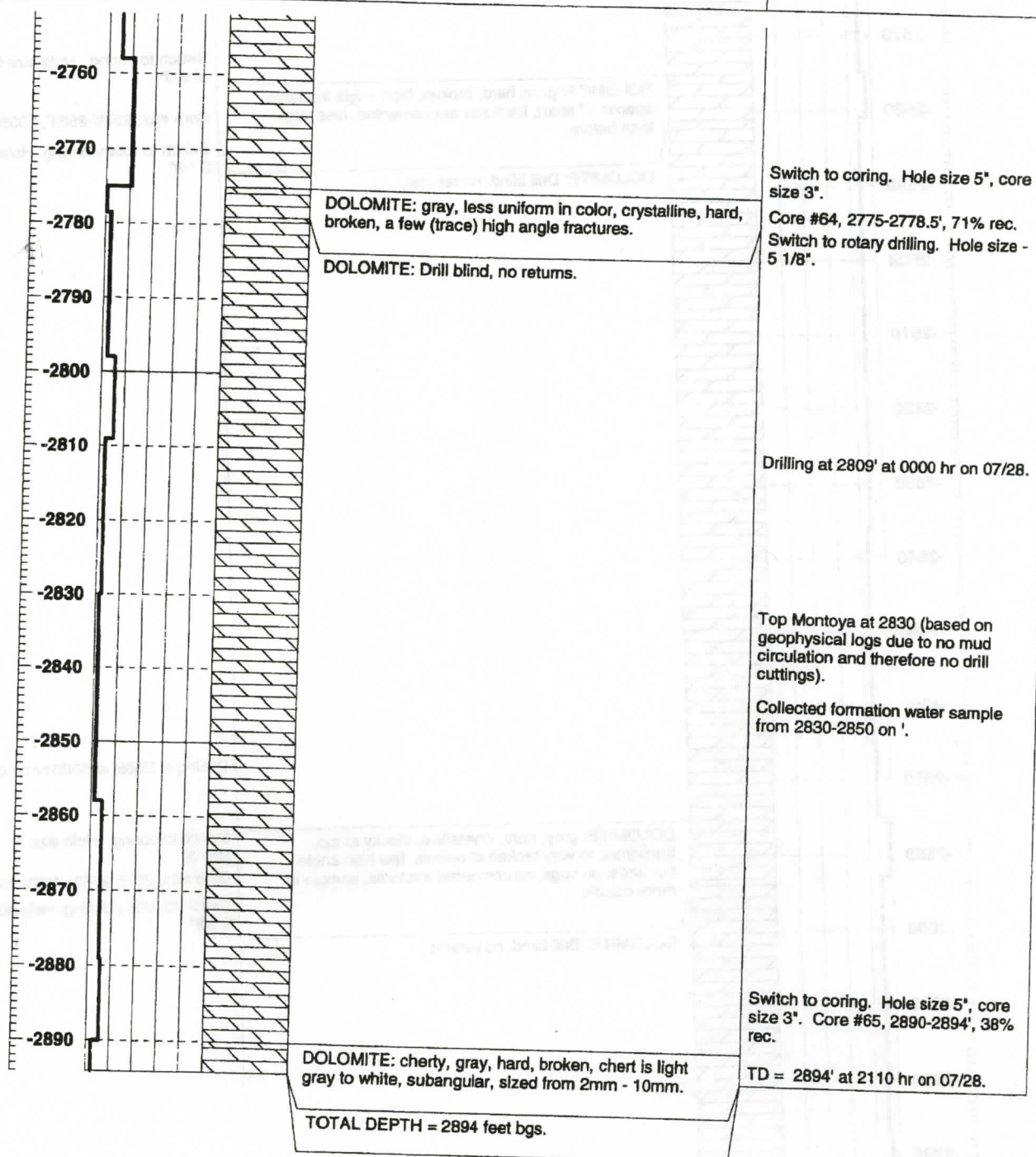
Page 15 of 16

DEPTH (feet)	DRILL RATE (feet/hour) 0 200	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
-2570				Switch to coring. Hole size 5", core size 3".
-2580			DOLOMITE: gray, hard, broken, high angle fractures spaced 6" apart, fractures are cemented, less vugs than before.	Core #62, 2575'-2581', 100% rec.
-2590			DOLOMITE: Drill blind, no returns.	Switch to rotary drilling. Hole size - 5 1/8".
-2600				
-2610				
-2620				
-2630				
-2640				
-2650				
-2660				
-2670				Drilling at 2665' at 0000 hr on 07/26.
-2680			DOLOMITE: gray, hard, crystalline, blocky at top, transitions to very broken at bottom, few high angle fractures, no vugs, no cemented fractures, sample is more calcitic.	Switch to coring. Hole size 5", core size 3".
-2690			DOLOMITE: Drill blind, no returns.	Core #63, 2675'-2583', 100% rec.
-2700				Switch to rotary drilling. Hole size - 5 1/8".
-2710				
-2720				
-2730				
-2740				
-2750				Drilling at 2740' at 0000 hr on 07/27.

BOREHOLE No.: TH03

Page 16 of 16

DEPTH (feet)	DRILL RATE (feet/hour)	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
	0 200			



EPWU Test Hole 4



TETRA TECH NUS, INC.
Houston, Texas

RECORD OF WELL CONSTRUCTION TEST/PILOT HOLE INVESTIGATION FORT BLISS, EL PASO COUNTY, TEXAS

WELL NO.: **TH04**

DRILLER: Stewart Brothers Drilling Co.

DRILLING METHOD: Failling CF-2500 Mud Rotary

DEVELOPMENT METHOD: Not Applicable

CLIENT: Corps of Engineers

PROJECT NUMBER: N7551.327D

DATES INSTALLED: 05/26/03-06/06/03

FIELD GEOLOGISTS: Basilio, Jorgeson, Sosa

WELL DATA	
BORE HOLE	
DIAMETER: 8 3/4 IN. FROM 0 TO 480 FT. 6 1/4 IN. FROM 480 TO 575 FT.	
CASING	
TYPE: STEEL DIAMETER: 6 5/8 IN. LENGTH: 480 FT. INTERVAL: FROM 0 TO 480 FT.	
SCREEN	
TYPE: NO WELL SCREEN, OPEN HOLE COMPLETION SLOT: NOT APPLICABLE DIAMETER: 6 1/4 IN. LENGTH: 95 FT. INTERVAL: FROM 480 TO 575 FT.	
SURFACE COMPLETION	
TYPE: 4'X4'X6" REINFORCED CONCRETE PAD WITH BOLTDOWN COVER	
GROUT	
TYPE: PORTLAND CEMENT QUANTITY: 95 SACKS INTERVAL: FROM 0 TO 480 FT.	
COMMENTS	

Not to Scale



TETRA TECH NUS, INC.
Houston, Texas

BOREHOLE No.: TH04

Page 1 of 4

NORTHING: 891,200.51

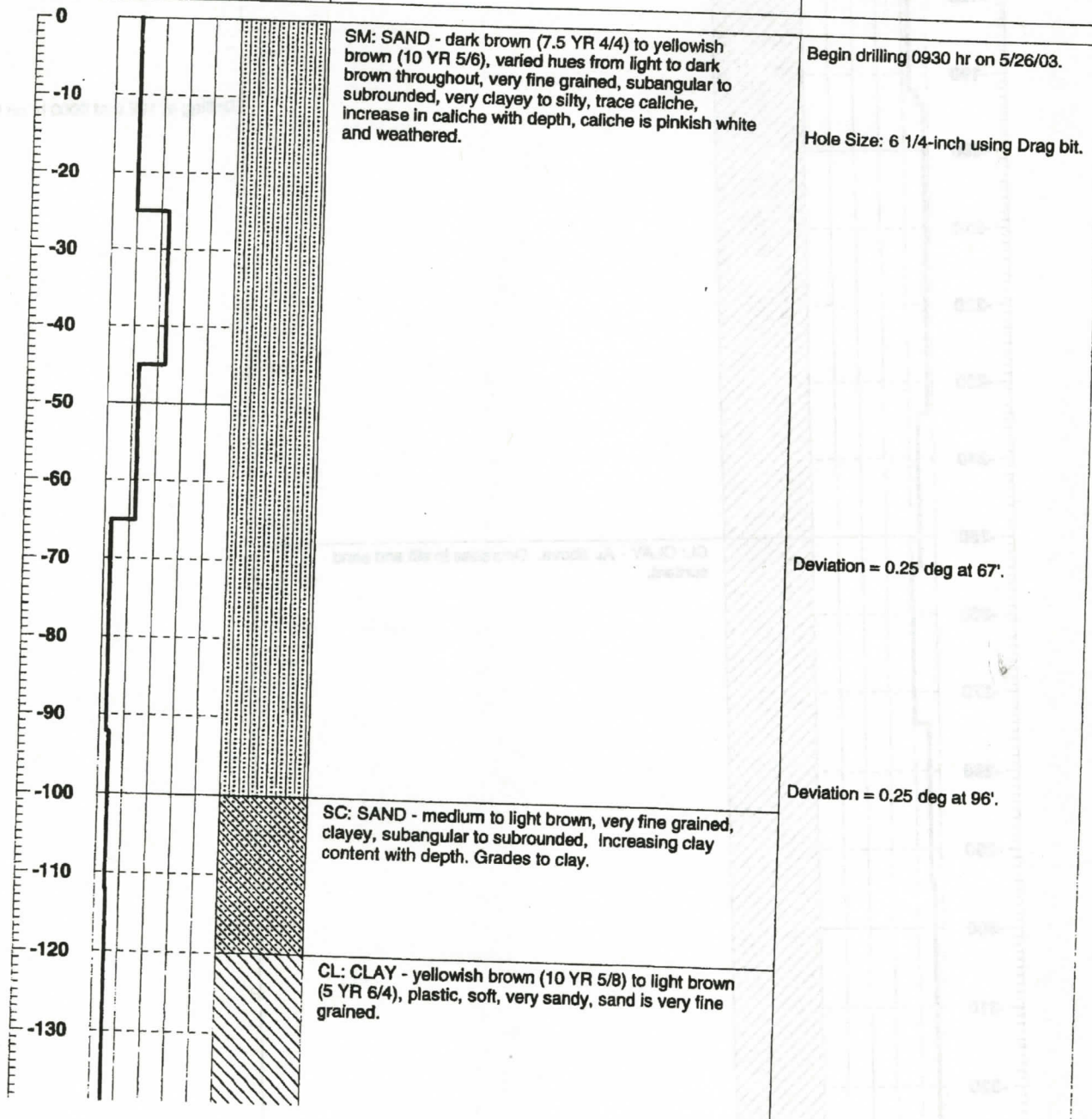
EASTING: 208,937.53

ELEVATION: 4130.4 Feet MSL

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Test/Pilot Hole Investigation		DRILLING CO.:	Stewart Brothers Drilling
SITE LOCATION:	Fort Bliss, El Paso County, TX		DRILLER:	S. Odom/J. Brunson
JOB NO.:	N7551 327D		RIG TYPE:	Failing CF-2500
LOGGED BY:	Tetra Tech NUS, Inc.		METHOD OF DRILLING:	Mud Rotary
PROJECT MANAGER:	Mike Meenan		SAMPLING METHODS:	Drill cuttings/Cores
DATES DRILLED:	5/26/03 - 6/6/03		TOTAL DEPTH:	575 feet bgs

NOTES: All color references are to the Munsell Color Chart.

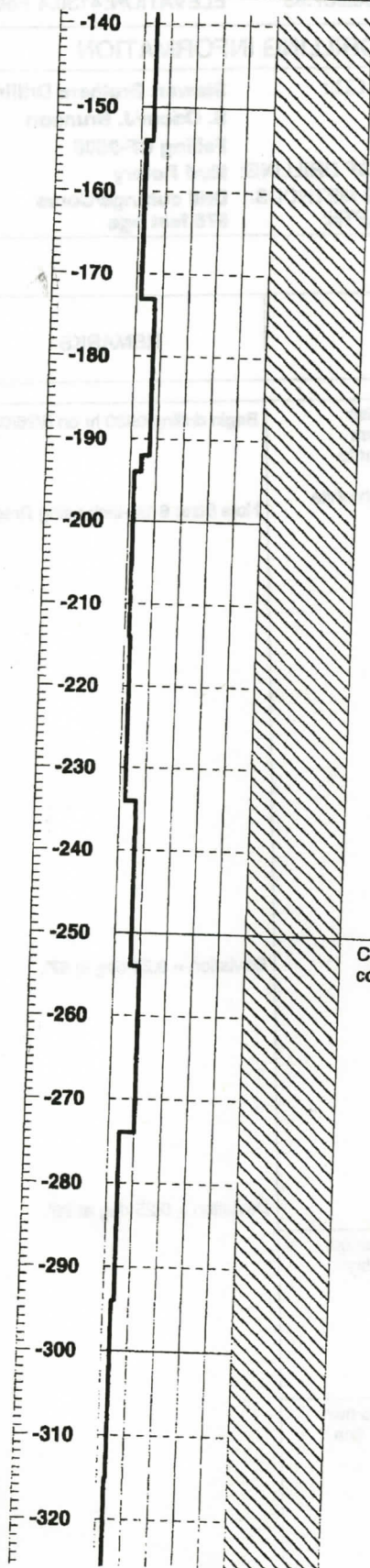
DEPTH (feet)	DRILL RATE (feet/hour)	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
0	200			



BOREHOLE No.: TH04

Page 2 of 4

DEPTH (feet)	DRILL RATE (feet/hour)	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
0	200			



CL: CLAY - As above. Decrease in silt and sand content.

Drilling at 192 ft at 0000 hr on 05/27.

DEPTH (feet)	DRILL RATE (feet/hour)	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
0	200			
-330			CL: CLAY - As above, increase in silt and sand content, trace dark minerals.	
-340				
-350				
-360				
-370				
-380				
-390				
-400			CLAY & SILTY: As above, very silty.	Water sample interval 400'-420', dry, no sample collected.
-410				
-420				Drilling at 416 ft at 0000 hr on 05/28.
-430				
-440				
-450			CLAY & SILTY: reddish yellow (7.5 YR 7/6), slightly plastic, slightly sandy, sand is very fine grained, loosely consolidated, moist.	Switch to conventional coring, 6.0" hole dia., 4" core dia.
-460				Core #1, 450-456', 100% recovery (rec.).
-470				Core #2, 456-474', 56% rec.
-480				Conduct geophysical logging, 0-480', on 5/28.
-490				Core #3, 474-480', 50% rec.
-500				At 480 ft at 0000 hr on 05/29.
-510				Ream open hole to 8 3/4" from 0-480' on 06/02. Set 6 5/8" casing from 0-480' on 06/03.
			SILTSTONE: brown, with clayey reddish yellow sand, sand is very fine grained, stiff, 70% consolidated, 30% loose.	Conventional coring, 6.0" hole dia., 4" core dia.
				Core #4, 481-486', 100% rec.
				Core #5, 486-491', 80% rec.
				Core #6, 491-496', 40% rec.
				Core #7, 496-501', 80% rec.
				Core #8, 501-506', 0% rec.
				Coring at 504 ft at 0000 hr on 06/05.
				Core #9, 506-511', 240% rec.
			SILTSTONE: As above with 1' thick limestone layers, limestone is brownish gray and competent. Grades to conglomerate at 516' with distinct gravel layers within the siltstone.	

BOREHOLE No.: TH04

Page 4 of 4

DEPTH (feet)	DRILL RATE (feet/hour)	SYMBOL	LITHOLOGY DESCRIPTION	REMARKS
0	200			
-520			CONGLOMERATE: very stiff, competent with cobbles ranging in size from 1" to 3", subangular to subrounded, 40% loose material.	Core #10, 511-517.5', 131% rec. Core #11, 517.5-522', 78% rec.
-530			CONGLOMERATE: As above with varying degrees of cementation and ranges of cobble size. Matrix is mostly siltstone with admixed sand and clay.	Core #12, 522-526.5', 89% rec. Core #13, 526.5-531', 100% rec.
-540				Core #14, 531-535.5', 67% rec. Core #15, 535.5-541', 109% rec.
-550				Coring at 541 ft at 0000 hr on 06/06.
-560				Core #16, 541-551', 100% rec. Core #17, 551-558', 100% rec.
-570				Core #18, 558-564.5', 92% rec. Core #19, 564.5-575', 109% rec.
TOTAL DEPTH = 575 ft bgs.				Total depth = 575' bgs at 1630 hr on 06/06.

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Huachuco Field No. _____ State Well No. 49.15301
 Owner's Well No. #1 County EP

3. Location: 1/4 Sec. Block Survey
(Paso Verde Land Development)
 2. Owner: G. H. Gaudin (Desert Oasis Subdiv. Co.) Address: 12705 Mountain
 Tenant: _____ Address: _____
 Driller: Cole Drilling Co. Address: _____
 3. Elevation of LSD is 4120 ft. above sea, determined by 7112 TOPO
 4. Drilled: 1976; by Cable Tool, Rotary
 5. Depth: Rept. 558 ft. Meas. _____ ft.
 6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed
 7. Pump: Mfr. Simplex Type Sub
 No. Stages _____, Rotor Diam. _____ in., Setting _____ ft.
 Column Diam. _____ in., Length Tailpipe _____ ft.
 8. Motor: Pool 5/20 Make & Model _____ HP
 9. Field: Flow _____ gpm, Pump 86 gpm, Meas., Rept., Yrs. _____
 10. Performance Test: Date _____ Length of Test _____ Made by _____
 Static Level _____ ft. Pumping Level _____ ft. Drawdown _____ ft.
 Production _____ gpm Specific Capacity _____ gpm/ft.
 11. Water Level: 2152 ft. 7/7/76 (estimate from M. H. Gaudin) which is _____ ft. above surface.
 ft. rept. _____ above _____ ft. below surface.
 ft. meas. _____ above _____ ft. below surface.
 ft. rept. _____ above _____ ft. below surface.
 ft. meas. _____ above _____ ft. below surface.
 12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflood, Observation, Not Used
 13. Quality: (Remarks on taste, odor, color, etc.) _____
 Temp. 80 °F, Date sampled for analysis 7/7/76 Laboratory _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
 14. Other data available as checked: Driller's Log, Radioactivity Log, Electric Log
 Formation Samples, Pumping Test
 15. Record by: R. R. Jones & M. H. Gaudin Date 7/7/76
 Source of Data Owner & obs.
 16. Remarks: 7/7/76 currently drilling a 600' test hole. If looks good may complete in a year or so.

WELL SCHEDULE		
Screen Opening		
Diam. (in.)	Type	Setting, ft.
		from to

TWOSE-WD-2

(distance) 4.4 mi

49-15-301

FORM 9-16425
(DEC. 68)WELL SCHEDULE
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

U. S. DEPT. OF THE INTERIOR

MASTER CARD

O.B.S.

Record by DELOHTE Source of data B LOG Date 5/4/88 No. WELTON SOUTH WELLS

State TEX County EL PASO City EL PASO

Latitude: 31 50 12 N Longitude: 106 09 24 W

Local well number: 14-149-15-303

Local use: WATER

Owner or name: MONTANA L.D. EST.

Ownership: County, Fed Gov't, City, Co-op, Private, State Agency, Water Dist. PRIVATE

Use of well: WATER

DATA AVAILABLE: Well data ☐ Flow w/1 meas. ☐ Field aquifer char. ☐

Qual. water data: type PROBIC TESTING NOV 1981 769 MG/L DS.

Freq. sampling: 5/4/88 Pumpage inventory: ☐ no. period: ☐

Aperture cards: FROM TAP ON DISCHG PIPE

Log data: B LOG O-508'

WELL-DESCRIPTION CARD

NAME AS ON MASTER CARD 500 ft. 500 ft. 500 ft.

Depth cased: 422 ft. 422 ft. 422 ft.

Finish: concrete

Method: air bored

Date drilled: 6/22/85

Driller: COLE DRILL CO

Life: air, bucket, cont, jet

Power: gas

Descr. of well: air, bucket, cont, jet

Alt. LSD: 4080'

Water level: 395'

Date: 4/7/85

Yield: 50

Pressure: 140

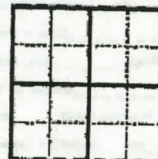
QUALITY OF WATER DATA: Iron 1334 Sulfate 1334 Chloride 1334 Hard 1334

49-15-303

9-125-July 1938
RevisedUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

72-49-15-601

WELL SCHEDULE

Date 3-16 1954 Field No. T-18
Record by 185 Office No. X-1
Source of data Test hole logs1. Location: State Texas County El Paso
Map 310 491 22 N. 10. 0. 1
N. 10. 0. 1 W. 1/4 Sec. 3 T. 11. 2. 3 N. 2. 5 E2. Owner: U.S. Geol. Survey Address _____
Tenant _____ Address _____
Driller B. A. Drilling Co. Address _____3. Topography _____
4. Elevation 4072.9 ft. above L.S.D.
5. Type: Dug, drilled, driven, bored, jetted 7-10-53
6. Depth: 1013 ft. Meas. _____ ft.
7. Casing: Diam. 1 in. to _____ in. Type _____
Depth 1013 ft. Finish _____8. Chief Aquifer _____ From _____ ft. to _____ ft.
Others _____9. Water level 394.4 ft. 7-19 1953 above ground surface
which is _____ ft. above surface10. Pump: Type None Capacity _____ G. M.
Power: Kind _____ Horsepower _____11. Yield: Flow _____ G. M., Pump _____ G. M., Meas., Rept. Est.
Drawdown _____ ft. after _____ hours pumping _____ G. M.12. Use: Dom., Stock, PS, RR, Ind., Irr., Obs. Test
Adequacy, permanence _____

13. Quality _____ Temp. _____ °F.

Taste, odor, color _____ Sample Yes _____ No _____
Unit for _____14. Remarks: (Log, Analysis, etc.) DST 1175-495Plugged & lost sample logs

49-15-601

TEXAS WATER DEVELOPMENT BOARD

WELL SURVEILLANCE

Aquifer _____ Field No. _____ State Well No. 49-15-602
 Operator's Well No. X-12 County _____

1. Location: NW 1/4, NW 1/4 Sec. 2, Block 78 Survey _____
 2. Owner: J. NABER Address: FARMER'S DANDIES
 Tenant: _____ Address: _____
 Driller: _____ Address: _____

3. Elevation of _____ in _____ ft. above seal, determined by Top
 4. Drilled: 1100 ft. by _____ ft. by _____ ft. by _____ ft.
 5. Depth: _____ ft. Hole _____ ft.
 6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed
 7. Pump: _____ Type _____
 No. Stages _____ No. Dis. _____ in. Setting _____ ft.
 Casing Dis. _____ in. Length Tailpipe _____ ft.
 8. Motor: Fuel _____ Make & Model _____ HP _____
 9. Yield: Flow _____ gpm, Pump _____ gpm, Mass. _____ Rept. _____ Est. _____
 10. Performance Test: Date _____ Length of Test _____ Made by _____
 Static Level _____ ft. Pumping Level _____ ft. Drawdown _____ ft.
 Production _____ gpm Specific Capacity _____ gpm/ft.

11. Water Level: _____ ft. Rept. _____ 19 _____ shows _____ which is _____ ft. above surface.
 _____ ft. Rept. _____ 19 _____ above _____ which is _____ ft. above surface.
 _____ ft. Rept. _____ 19 _____ below _____ which is _____ ft. below surface.
 _____ ft. Rept. _____ 19 _____ above _____ which is _____ ft. above surface.
 _____ ft. Rept. _____ 19 _____ below _____ which is _____ ft. below surface.

12. Use: Stock, Public Supply, Ind., Irr., Waterflood, Observation, Not Used
 13. Quality: (Remarks on tests, color, odor, etc.) _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,
 Formation Sample, Pumping Test.
 15. Record by Dr. P. Naber Date 7-2-72
 Source of Data USGS Schedule
 16. Remarks: PUMPING AT 700! OK for Come
NOT AVAILABLE - SALT

TWDB-WD-2

(Sketch)

49-15-602 ✓

Original copy by
ified mail to the
is Water Development Board
. Box 12386
in, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 49-07-5A
Located on map YES
Received: 77
dk

OWNER:
Person having well drilled Hot Wells Cattle Co. Address 7321 N. Loop El Paso Texas
(Name) (Street or RFD) (City) (State)
Landowner TEXAS PACIFIC LAND & DEVELOPMENT Address _____
(Name) (Street or RFD) (City) (State)

LOCATION OF WELL:
County EL PASO 12 miles in N.E. direction from EL PASO
(N.E., S.W., etc.) (Town)

Locate by sketch map showing landmarks, roads, creeks,
hiway number, etc.*

SEE REVERSE

North
↑

(Use reverse side if necessary)

Give legal location with distances and directions from
adjacent sections or survey lines.

Labor _____ League _____

Block 78 Survey _____

Abstract No. _____

(NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 21 Township 1

1) TYPE OF WORK (Check):
☒ New Well Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
☒ Domestic Industrial Municipal
Irrigation ☒ Test Well Other

5) TYPE OF WELL (Check):
☒ Rotary Driven Dug
Cable Jetted Bored

WELL LOG:
Diameter of hole 12 $\frac{1}{2}$ in. Depth drilled 550 ft. Depth of completed well 550 ft. Date drilled 6-29-77
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0-20		Sub-Soil-Caliche
20-80		SAND
80-100		RED CLAY
100-110		SAND
110-120		RED CLAY AND SOME SAND
120-340		SAND & RED CLAY
340- 380 420		HARD SAND AND RED CLAY
420-460		RED CLAY AND SAND
460-500		HARD SAND AND RED CLAY
500-515		RED CLAY AND SOME HARD SAND
515-550		RED CLAY

9) CASING: NO CASING SET
Type: Old New Steel Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches) _____ Setting From (ft.) To (ft.) Gage

NO CASING SET

10) SCREEN:
Type NONE

Perforated _____ Slotted _____

Diameter (inches) _____ Setting From (ft.) To (ft.) Slot Size

NO CASING SET

(Use reverse side if necessary)

7) COMPLETION (Check): Plugged with cement 60 ft from top
Straight wall Gravel packed ☒ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level 0 ft. below land surface Date 6-29-77
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.
below land surface.

11) WELL TESTS:

Was a pump test made? Yes ☒ If yes, by whom?

Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.

Artesian flow _____ gpm

Temperature of water _____

12) WATER QUALITY:

Was a chemical analysis made? Yes ☒

Did any strata contain undesirable water? Yes ☒

Type of water? NONE depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME J. B. Bradford Water Well Drillers Registration No. 1281
(Type or Print)
ADDRESS 9001 Norton EL PASO TEXAS
(Street or RFD) (City) (State)
(Signed) [Signature] Bradford Drilling
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

FORM 5-1662B
(DEC. 68)Well No. 49-15-609

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

COUNTY: 40125Record by DEWHITSource of data DLOGDate 11/19/86 Map NATIONS SOUTH 7/4State TEXCounty 49

(or town)

EL PASOJ. L.Latitude: 31 48 07 NLongitude: 106 09 27 WSequential number: 1Lat-long accuracy: 30'Sec. 9Twp. 50NR. 50WS. 15ES. 15ELocal well number: 49-15-609Other number: 1512Local use: HOME STEAD MUD #2Owner of name: WILL #1

Ownership: (C) County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist

(F)

(M)

(P)

(S)

(D)

(E)

(N)

(I)

(M)

(P)

(S)

Use of water: (A) Ale cond, Recoling, Conn, Dewster, Power, Fire, Dom, Irr, Med, Ind, P, R, Rec

(S)

(T)

(U)

(V)

(W)

(X)

(Y)

(Z)

(A)

(B)

(C)

Use of well: (A) Anode, Drain, Seismic, Heat Res, Gbr, Oil-gas, Recharge, Test, Unused, Windmill, Waste, Destroyed

(B)

(C)

(D)

(E)

(F)

(G)

(H)

(I)

(J)

(K)

(L)

DATA AVAILABLE: Well data ☐Freq. W/L near: ☐Field aquifer char: ☐Hyd. lab. data: ☐Qual. water data: type: ☐Freq. sampling: ☐Impregn inventory: ☐no. period: ☐Apertures cards: ☐Log data: DLOG 0-632'

WELL-DESCRIPTION CARD

NAME AS ON MASTER CARD

Depth well: 632'ft. 632'Accuracy: 12'ft. 12'Depth casing: 470'ft. 470'Casing type: SDisp. 12'in 12'

Finish: (C) portland, grade, y. (F) concrete, (per.) (M) gravel, y. (P) open, (S) screen, ad. pt., shored, open, (D) other

(T) (U) (V) (W) (X) (Y) (Z)

Method: (A) all bored, cable, aug. (B) aug. (C) aug. (D) aug. (E) aug. (F) aug. (G) aug. (H) aug. (I) aug. (J) aug. (K) aug. (L) aug. (M) aug. (N) aug. (O) aug. (P) aug. (Q) aug. (R) aug. (S) aug. (T) aug. (U) aug. (V) aug. (W) aug. (X) aug. (Y) aug. (Z) aug.

(A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

Date drilled: 5/5/86ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'ft. 504'Driller: COLB D. J. G. GOft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.ft. 9516 G. H. R. L. O. C. H. E. L. P. A. D. T. A.

Lift (type): (A) air, bucket, vent, jet, (B) multiple, (C) multiple, (D) multiple, (E) multiple, (F) multiple, (G) multiple, (H) multiple, (I) multiple, (J) multiple, (K) multiple, (L) multiple, (M) multiple, (N) multiple, (O) multiple, (P) multiple, (Q) multiple, (R) multiple, (S) multiple, (T) multiple, (U) multiple, (V) multiple, (W) multiple, (X) multiple, (Y) multiple, (Z) multiple

(A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

TOMAT (type): (A) diesel, (B) gas, gasoline, hand, gas, wind, H₂O, (C) diesel, (D) gas, gasoline, hand, gas, wind, H₂O, (E) diesel, (F) gas, gasoline, hand, gas, wind, H₂O, (G) diesel, (H) gas, gasoline, hand, gas, wind, H₂O, (I) diesel, (J) gas, gasoline, hand, gas, wind, H₂O, (K) diesel, (L) gas, gasoline, hand, gas, wind, H₂O, (M) diesel, (N) gas, gasoline, hand, gas, wind, H₂O, (O) diesel, (P) gas, gasoline, hand, gas, wind, H₂O, (Q) diesel, (R) gas, gasoline, hand, gas, wind, H₂O, (S) diesel, (T) gas, gasoline, hand, gas, wind, H₂O, (U) diesel, (V) gas, gasoline, hand, gas, wind, H₂O, (W) diesel, (X) gas, gasoline, hand, gas, wind, H₂O, (Y) diesel, (Z) gas, gasoline, hand, gas, wind, H₂O

(A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

Description: 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043Alt. LSR: 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043ft. 4043Water level: 428ft. 428ft. 428ft. 428ft. 428ft. 428ft. 428ft. 428ft. 428ft. 428ft. 428ft. 428Date: 5/7/86ft. 140ft. 140ft. 140ft. 140ft. 140ft. 140ft. 140ft. 140ft. 140ft. 140ft. 140Drawdown: 26ft. 26ft. 26ft. 26ft. 26ft. 26ft. 26ft. 26ft. 26ft. 26ft. 26ft. 26QUALITY OF WATER DATA: Iron ppm 48Sulfate ppm 48Chloride ppm 48Hardness ppm 48pH 48Temp. 48Turbidity 48Total dissolved solids 48Total suspended solids 48Total solids 48Total organic carbon 48Total inorganic carbon 48Sp. Conductivity: 48ft. 48ft. 48ft. 48ft. 48ft. 48ft. 48ft. 48ft. 48ft. 48ft. 48ft. 48

Taste, color, etc.

49-15-609

FORM 9-16429
IOEC 681Well No. 49-15-611

U. S. DEPT. OF THE INTERIOR

WELL SCHEDULE
GEOLOGICAL SURVEYDATE 11/14/87
WATER RESOURCES DIVISION

MASTER CARD

Record by DE WITTE Source of data D LOG Date 3/11/87 Map NATIONALS SOUTH

State TX County EL PASO Locality EL PASO

Latitude: 31 49 06 N Longitude: 106 00 55 W Sequential number: 1

Local well number: 49-15-611 Other number: 8 & N

Local use: WATER Owner of name: JOE CONCRETE

Owner of name: JOE CONCRETE Address: 2275 AMARILLO AVE

Ownership: (C) County, Fed Gov't, City, Corp, Private, State Agency, Water Dist. (U) EL PASO TX 1993

Use of well: (A) Air cond, (B) Bottling, (C) Comm, (D) Domestic, (E) Power, (F) Fire, (G) Irr, (H) Med, (I) P S, Rec, (J) Stock, (K) Unused, (L) Recharge, (M) Recharge, (N) Recharge, (O) Recharge, (P) Recharge, (Q) Recharge, (R) Recharge, (S) Recharge, (T) Recharge, (U) Recharge, (V) Recharge, (W) Recharge, (X) Recharge, (Y) Recharge, (Z) Recharge

DATA AVAILABLE: Well data 70 Field aquifer char. 70

Hyd. lab. data: 70

Qual. water data: 70

Freq. sampling: 70 Type inventory: 70

Apparatus cards: 70

Log data: 0 LOG 0-632

WELL-DESCRIPTION CARD

NAME AS ON MASTER CARD 0 LOG 0-632 Depth well: 610 ft. 610 Mass. 70

Depth casing: 450 ft. 450 Casing type: 5 Dia: 10 3/4 in. 70

Finish: (C) parous, (D) gravel, (E) gravel, (F) gravel, (G) gravel, (H) gravel, (I) gravel, (J) gravel, (K) gravel, (L) gravel, (M) gravel, (N) gravel, (O) gravel, (P) gravel, (Q) gravel, (R) gravel, (S) gravel, (T) gravel, (U) gravel, (V) gravel, (W) gravel, (X) gravel, (Y) gravel, (Z) gravel

Method: (A) air, (B) air, (C) air, (D) air, (E) air, (F) air, (G) air, (H) air, (I) air, (J) air, (K) air, (L) air, (M) air, (N) air, (O) air, (P) air, (Q) air, (R) air, (S) air, (T) air, (U) air, (V) air, (W) air, (X) air, (Y) air, (Z) air

Date drilled: 1/23/86 9 3 6 Pump intake section: 515 ft. 515

Driller: COLE DRILLING 9516 CHARLTON EL PASO TX

Use: (A) air, (B) air, (C) air, (D) air, (E) air, (F) air, (G) air, (H) air, (I) air, (J) air, (K) air, (L) air, (M) air, (N) air, (O) air, (P) air, (Q) air, (R) air, (S) air, (T) air, (U) air, (V) air, (W) air, (X) air, (Y) air, (Z) air

Power: (A) diesel, (B) diesel, (C) diesel, (D) diesel, (E) diesel, (F) diesel, (G) diesel, (H) diesel, (I) diesel, (J) diesel, (K) diesel, (L) diesel, (M) diesel, (N) diesel, (O) diesel, (P) diesel, (Q) diesel, (R) diesel, (S) diesel, (T) diesel, (U) diesel, (V) diesel, (W) diesel, (X) diesel, (Y) diesel, (Z) diesel

Descript. MP 4078 4078 Accuracy: 7 1/2 MN

Alt. LSD: 398 ft. above MP; 398 LSD 398 Accuracy: REPT

Date: 1/23/86 1:26 Yield: 105 105 Method: 42 42

Drawdown: 20 ft. 20 Accuracy: REPT 42 42

QUALITY OF WATER DATA: Iron ppm Sulfate ppm Chloride ppm Hard. ppm

Sp. Conduct. K x 10⁶ Temp. °F Date sampled 11/14/87

Tests, color, etc.

49-15-611

State of Texas
Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 49-15-6B
Located on map YES
Received: RMB

1) OWNER John Barnett (Name) Address P.O. Box 26161 (Street or RFD) El Paso, TX (City) 79926 (State) (Zip)
2) LOCATION OF WELL:
County El Paso 12 miles in EAST direction from El Paso (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

Legal description:
Section No. 22 Block No. 6 Township 2
Abstract No. _____ Survey Name T-P RR Co.
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☐ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☒ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 9/1/81

DIAMETER OF HOLE
Dia. (in.) 10 From (ft.) To (ft.)
10" Surface 545'

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Covered up
If Gravel Packed give interval ... from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	3	SAND - TAN
3	14	Caliche - WHITE
14	41	CLAY - BRWN
41	56	SAND - TAN
56	160	CLAY - BRWN.
160	210	CLAY - ROSE
210	213	SANDSTONE - TAN
213	310	CLAY - BRWN
310	410	CLAY - ROSE
410	450	SANDY CLAY - BRWN.
450	545	CLAY - BRWN

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
		NONE			

CEMENTING DATA

Cemented from _____ ft. to _____ ft.
Method used _____
Cemented by _____ (Company or Individual)

9) WATER LEVEL:

Static level NONE ft. below land surface Date _____
Artesian flow NONE gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:

☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

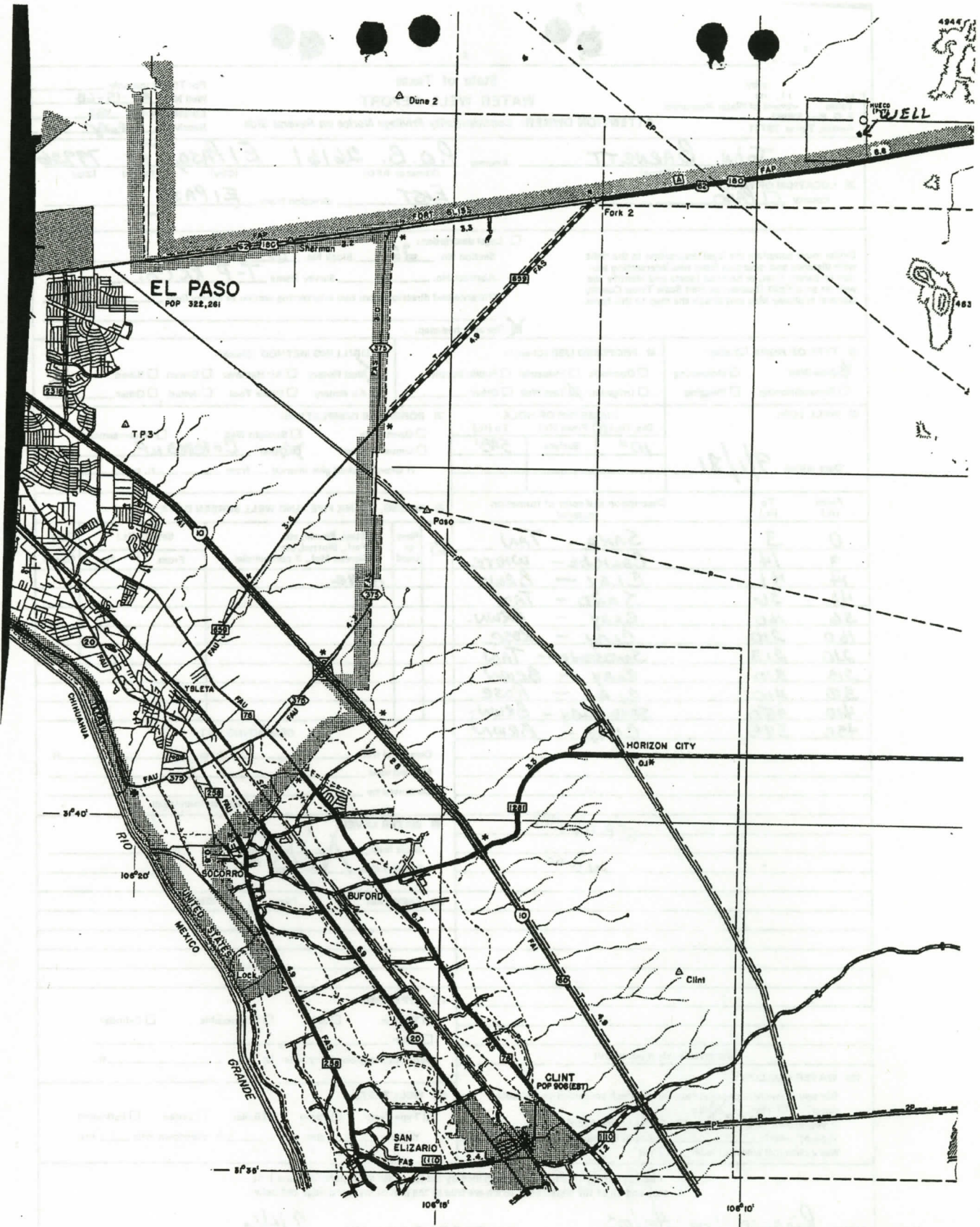
12) WELL TESTS:

☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard Lee Helms (Type or Print) Water Well Drillers Registration No. 2146
ADDRESS 14925 MONTANA (Street or RFD) El Paso, TX (City) 79936 (State) (Zip)
(Signed) Richard Lee Helms (Signature) The MONTANA Co (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.



ATTACHMENT
49-15-6B

<http://wiid.twdb.state.tx.us/ImageViewer/ImageViewer.aspx?image=LW\images\00364\00...> 2/25/2010

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Test Hole Field No. _____ State Well No. 49-15-904
 Owner's Well No. TH #3 County El Paso

1. Location: 1/4, 1/4 Sec. _____ Block _____ Survey CPWA Mues Station

2. Owner: CPWA TH #3 Address: _____
 Tenant: _____ Address: _____
 Driller: _____ Address: _____

3. Elevation of _____ 650 is 4075 ft. above sea level, determined by Topo

4. Drilled: 7-23 10-68; Dig, Cable Tool, Rotary, _____

5. Length: Rept. 531 ft. Meas. _____ ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed _____

7. Pipe: Mfg. _____ Type _____
 No. Stages _____, Bore Dia. _____ in., Setting _____ ft.
 Column Dia. _____ in., Length Tailpipe _____ ft.

8. Motor: Fuel _____ Make & Model _____ HP _____

9. Fluid: Flow _____ gpm, Pump _____ gpm, Meas., Rept., Est. _____

10. Performance Test: Date _____ Length of Test _____ Made by _____
 Static Level _____ ft., Pumping Level _____ ft., Drawdown _____ ft.
 Production _____ gpm Specific Capacity _____ gpm/ft.

11. Water Level: _____ ft. Rept. _____ 19 _____ shows _____ which is _____ ft. above surface.
 _____ ft. Rept. _____ 19 _____ shows _____ which is _____ ft. above surface.
 _____ ft. Rept. _____ 19 _____ shows _____ which is _____ ft. above surface.
 _____ ft. Rept. _____ 19 _____ shows _____ which is _____ ft. above surface.

12. Use: Gen., Stock, Public Supply, Ind., Irr., Waterflood, Observation, Not Used, Test Hole

13. Quality: (Remarks on taste, odor, color, etc.) _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
 Temp. _____ °F, Date sampled for analysis _____ Laboratory _____

14. Other data available as circled: Miller's Log, Radioactivity Log, Electric Log,
 Formation Samples, Pumping Test, File

15. Record by: _____ Date 12-7 1975
 Source of Data Layne Texas Files

16. Remarks: _____

TWDB-WD-2

 49-15-702
 (Sketch)

49-15-904

STATE OF TEXAS WELL REPORT for Tracking #72872

Owner:	Jobe Materials,L.P.	Owner Well #:	5
Address:	1150 Southwest Drive El Paso , TX 79928	Grid #:	49-15-6
Well Location:	4300 Araceli El Paso , TX 79928	Latitude:	31° 49' 37" N
Well County:	El Paso	Longitude:	106° 07' 53" W
Elevation:	4160 ft.	GPS Brand Used:	Lowrance globalmap 100
Type of Work: New Well		Proposed Use: Industrial	

Drilling Date: Started: **10/20/2005**
Completed: **11/4/2005**

Diameter of Hole: Diameter: **23 in From Surface To 592 ft**

Drilling Method: **Mud Rotary**

Borehole Completion: Gravel Packed From: **20 ft to 592 ft**
Gravel Pack Size: **1/8**

Annular Seal Data: 1st Interval: **From 20 ft to 0 ft with 33 sacks cement (#sacks and material)**
2nd Interval: **No Data**
3rd Interval: **No Data**
Method Used: **tremmie**
Cemented By: **R.L. Guffey,Inc**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **No Data**
Method of Verification: **No Data**
Approved by Variance: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: Static level: **482 ft. below land surface on 11/12/2005**
Artesian flow: **No Data**

Packers: **none**

Plugging Info: Casing left in well: **Cement/Bentonite left in well:**
From (ft) To (ft) From (ft) To (ft) Cem/Bent Sacks Used
none

Type Of Pump: **Other: none**
Depth to pump bowl: **(No Data) ft**

Well Tests: **Pump**
Yield: **5 GPM with 105 ft drawdown after 1 hour**

Water Quality: Type of Water: **5000 tds (undesirable)**
Depth of Strata: **112 ft.**
Chemical Analysis Made: **No Data**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **Yes**
Naturally-occurring, poor-quality groundwater encountered.
Type: **(No Data)**

Certification Data:

The driller did certify that while drilling, deepening, or otherwise altering the above described well, undesirable water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in a such a manner as to avoid injury or pollution.

The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information:

R.L. Guffey, Inc.
P.O. Box 756
Mesilla Park, NM 88047

Driller License Number:

4680

Licensed Well Driller Signature:

Padraic Guffey

Registered Driller Apprentice Signature:

No Data

Apprentice Registration Number:

No Data

Comments:

No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #72872) on your written request.

Texas Department of Licensing & Regulation

P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-22 top soil, 22-37 coarse sand, 37-59 small gravel, 59-76 sandy clay, 76-85 sand, 85-97 clay, 97-112 sandy clay, 112-189 clay with small gravel embedded, 189-240 sandyclay, 240-250 clay, 250-268 sand, 268-315 sandyclay, 315-333 sand, 333-339 sandyclay, 339-343 sand, 343-347 sandyclay, 347-432 sand with caliche streaks, 432-450 sandyclay, 450-461 sticky clay, 461-477 sand with caliche streaks, 477-493 sandyclay, 493-499 sand, 499-507 clay, 507-529 sandyclay, 529-552 sand with caliche streaks, 552-560 sandy clay, 560-599 hard rock

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
12 3/4	new	.375 blank steel casing	+3-312
12 3/4	new	.312 roscoe moss sutter screen	312-592
12 3/4	new	.375 bullnose plug	592-594

STATE OF TEXAS WELL REPORT for Tracking #89984

Owner:	JOBE MATERIALS, L.P.	Owner Well #:	#5
Address:	1150 SOUTHVIEW DR EL PASO , TX 79928	Grid #:	49-15-6
Well Location:	4300 ARECELI EL PASO , TX 79928	Latitude:	31° 49' 23" N
Well County:	El Paso	Longitude:	106° 07' 32" W
Elevation:	No Data	GPS Brand Used:	MAGELLAN

Type of Work:	Deepening	Proposed Use:	Industrial
---------------	-----------	---------------	------------

Drilling Date:	Started: 6/14/2006 Completed: 6/20/2006
Diameter of Hole:	No Data Diameter: 10 in From 592 ft To 1100 ft
Drilling Method:	Air Hammer
Borehole Completion:	No Data
Annular Seal Data:	1st Interval: No Data 2nd Interval: No Data 3rd Interval: No Data
Surface Completion:	No Data

Water Level:	Static level: 460 ft. below land surface on 6/20/2006 Artesian flow: No Data
Packers:	No Data
Plugging Info:	Casing or Cement/Bentonite left in well: No Data
Type Of Pump:	Submersible Depth to pump bowl: 840 ft
Well Tests:	Pump Yield: 75 GPM with (No Data) ft drawdown after (No Data) hours

Water Quality:	Type of Water: UNDESIRABLE 5000 TDS Depth of Strata: 855 ft. Chemical Analysis Made: No Did the driller knowingly penetrate any strata which contained undesirable constituents: Yes Naturally-occurring, poor-quality groundwater encountered. Type: 5000 TDS The driller did certify that while drilling, deepening, or otherwise altering the above described well, undesirable water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in a such a manner as to avoid injury or pollution.
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **SKINNER DRILLING**
PO BOX 544
ALPINE, TX 79831

Driller License Number: **2838**

Licensed Well Driller Signature: **WALTER SKINNER**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **BOREHOLE AND SURFACE WERE COMPLETED BY PRIOR DRILLER. REFER TO REPORT #72872.**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #89984) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
592 745 TAN LIMESTONE
745 825 TAN SANDSTONE
825 1050 RED GRANITE
1050 1100 BLACK METABASALT

CASING, BLANK PIPE & WELL SCREEN DATA

No Data

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 49-07-9A
Located on map yes
Received: C.F.S.

1) OWNER E.W. McCracken Address 8647 North Loop El Paso, Texas 79907
(Name) (Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL: El Paso 15 miles in East direction from El Paso Texas
County (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
with distance and direction from two intersecting
section or survey lines, or he must locate and identify the
well on an official Quarter- or Half-Scale Texas County
General Highway Map and attach the map to this form.

☒ Legal description:
Section No. 9 Block No. 6 Township Public School
Abstract No. 6671 Survey Name Grover Jones
Distance and direction from two intersecting section or survey lines one mile
north of Montano Ave. on 5200, A O'shea Street.
☐ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging
4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other
5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other

6) WELL LOG:
Date drilled 7-6-83
DIAMETER OF HOLE
Dia. (in.) From (ft.) To (ft.)
12 1/4 Surface 315
515
7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other
If Gravel Packed give interval . . . from 0 ft. to 515 ft.

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From To	Gage Casing Screen
0	4	Grey sandy soil					
4	26	white calche					
26	30	white calche & gravel	65/8	N	Steel Blank	0 435	.219
30	33	red clay					
33	83	grey course gravel	65/8	N	Steel Millslot	435 515	.250
83	89	red clay					
89	112	grey sand & gravel					
112	115	red clay					
115	139	grey course sand & gravel					
139	143	brown clay					
143	167	red clay					
167	235	red sand					
235	241	red clay					
241	286	grey sand w/ clay stks.					
286	297	red clay					
297	315	hard red clay					
315	425	grey sand w/ clay stks.					
425	430	red clay					
430	443	grey sand					
443	447	red clay					
447	481	grey sand					
481	486	red clay					
486	515	grey sand					

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:
Cementing Data:
Cemented from _____ ft. to _____ ft.
Method used _____
Cemented by _____ (Company or Individual)
9) WATER LEVEL:
Static level 392 ft. below land surface Date 7-9-83
Artesian flow _____ gpm. Date _____
10) PUMPERS: Type _____ Depth _____

RECEIVED
JUL 21 1983

DEPT. OF
WATER RESOURCES

(Use reverse side if necessary)

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? Good Depth of strata 425 - 515
Was a chemical analysis made? ☐ Yes ☒ No

11) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other
Depth to pump bowls, cylinder, jet, etc., 441 ft.

12) WELL TESTS:
☐ Type Test: ☒ Pump ☒ Bailor ☐ Jetted ☐ Estimated
Yield: 20 gpm with _____ ft. drawdown after _____ hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that
each and all of the statements herein are true to the best of my knowledge and belief.

NAME Pat Coles - Aqua Drilling Co. Water Well Drillers Registration No. 1391
(Type or Print)
ADDRESS Rt 1 Box 677 Anthony Texas - N.M. 88021
(Street or RFD) (City) (State) (Zip)
(Signed) Pat Coles AQUA DRILLING CO.
(Water Well Driller) (Company Name)
Please attach electric log, chemical analysis, and other pertinent information, if available.

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 49-07-98
Located on map DLF
Received:

1) OWNER Paso View Water Coop. Address 7000 O'Leary Rd. El Paso, Tx. 79936
(Name) (Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL:
County El Paso 18 miles in northeast direction from El Paso
(N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
with distance and direction from two intersecting sec-
tion or survey lines, or he must locate and identify the
well on an official Quarter- or Half-Scale Texas County
General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☐ Domestic ☐ Industrial ☒ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 7/1/84

DIAMETER OF HOLE
Dia. (in.) From (ft.) To (ft.)
15 3/4 Surface 545

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from _____ ft. to _____ ft.

From To Description and color of formation
(ft.) (ft.) material

0-3	top soil - red
3-36	caliche - white
36-39	sand gravel - tan
39-108	sand - tan
108-114	clay - rose
114-252	sand tan
252-545	clay - rose

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
		NONE			

NO WATER

CEMENTING DATA

Cemented from _____ ft. to _____ ft.

Method used _____

Cemented by _____

(Company or Individual)

9) WATER LEVEL: NONE

Static level _____ ft. below land surface Date _____

Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:

☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:

☐ Type Test ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated

Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable
water? ☐ Yes ☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that
each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard Lee Helms
(Type or Print)

Water Well Drillers Registration No. 2146

ADDRESS 14925 Montana

El Paso, Tx.

79936

(Street or RFD)

(City)

(State)

(Zip)

(Signed)

Richard Lee Helms
(Water Well Driller)

The Montana Co.
(Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use # 19-153
Well No. 19-153
Located on map
Received:

1) OWNER Galindo Arcenio (Name) Address 14645 Simpson El Paso, Tx. 79936 (City) (State) (Zip)
2) LOCATION OF WELL: County El Paso 5 miles in east direction from El Paso (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
14.75	Surface	500

Date drilled March

7) BOREHOLE COMPLETION:

☒ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 320 ft. to 500 ft.

From (ft.)	To (ft.)	Description and color of formation material
------------	----------	---

0	5	Red Sand
5	20	Chalk White
20	68	SAND & GRAVEL TAN
68	76	CLAY BROWN
76	135	SAND BROWN
135	141	CLAY BROWN
141	238	SAND TAN
238	392	CLAY BROWN
392	396	SAND TAN
396	412	CLAY BROWN
412	421	SAND BROWN
421	443	CLAY BROWN
443	473	SAND TAN
473	486	CLAY BROWN
486	496	SAND TAN
496	500	CLAY BROWN

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
6	N	steel			
6	N	perforated			

CEMENTING DATA

Cemented from surface ft. to 15 ft.
Method used poured
Cemented by The Montana Co. (Company or Individual)

9) WATER LEVEL:

Static level 340 ft. below land surface Date May 6, 86
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 420 ft.

12) WELL TESTS:

☐ Type Test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
Yield: 5 gpm with 2 ft. drawdown after 3 hrs.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard R. Allen (Type or Print) Water Well Drillers Registration No. _____

ADDRESS _____ (Street or RFD) (City) (State) (Zip)

(Signed) _____ (Water Well Driller) _____ (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

STATE OF TEXAS WELL REPORT for Tracking #35818

Owner:	El Paso Water Utilities	Owner Well #:	TW-3
Address:	1154 Hawkins Blvd. El Paso, TX 79961	Grid #:	49-08-1
Well Location:	McGregor Range El Paso, TX 79961	Latitude:	31° 59' 50" N
Well County:	El Paso	Longitude:	106° 06' 23" W
Elevation:	No Data	GPS Brand Used:	No Data
Type of Work: New Well		Proposed Use: Test Well	

Drilling Date: Started: **5/10/2003**
Completed: **7/28/2003**

Diameter of Hole: Diameter: **8 3/4 in From Surface To 39 ft**
Diameter: **6 1/4 in From 39 ft To 1075 ft**
Diameter: **5 1/8 in From 1075 ft To 2894 ft**

Drilling Method: **Mud Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data: 1st Interval: **From 0 ft to 39 ft with 10 cement (#sacks and material)**
2nd Interval: **From 0 ft to 1075 ft with 114 cement (#sacks and material)**
3rd Interval: **No Data**
Method Used: **Pressure Grout**
Cemented By: **Stewart Brothers**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **No Data**
Method of Verification: **n/a**
Approved by Variance: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: Static level: **No Data**
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Stewart Brothers**
P. O. Box 3891
Milan, NM 87021

Driller License Number: **3175**

Licensed Well Driller Signature: **William Brunson**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **\$dfs**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #35818) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
 0 90 Tan Sand
 90 425 Clay Linterbald with Sand/
 Silt
 425 629 Conglomerate
 629 710 Conglomerates w/Clays
 710 900 Shale Drk to Blk
 900 1280 Limestone with Shale
 1280 1315 Igneow Intrusion
 1315 2050 Limestone
 2050 2230 Limestone Interbedded
 with Shale
 2230 2894 Dolomite

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
7	New Steel	0 39 .375	
5 9/16	New Steel	39 1075 .188	

STATE OF TEXAS WELL REPORT for Tracking #63632

Owner:	El Paso Water Utilities	Owner Well #:	Test Well #1
Address:	1154 Hawkins Blvd. El Paso, TX 79961	Grid #:	49-08-1
Well Location:	McGregor Range El Paso, TX 79961	Latitude:	31° 59' 20" N
Well County:	El Paso	Longitude:	106° 06' 45" W
Elevation:	No Data	GPS Brand Used:	No Data
Type of Work: New Well		Proposed Use: Test Well	

Drilling Date: Started: **3/10/2003**
Completed: **3/31/2003**

Diameter of Hole: Diameter: **8 3/4 in From Surface To 686 ft**
Diameter: **6 1/4 in From 686 ft To 2300 ft**

Drilling Method: **Mud Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data: 1st Interval: **From 0 ft to 686 ft with 168 (#sacks and material)**
2nd Interval: **No Data**
3rd Interval: **No Data**
Method Used: **Pressure Grouted**
Cemented By: **Stewart Brothers Drilling**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **No Data**
Method of Verification: **No Data**
Approved by Variance: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: Static level: **No Data**
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No Data**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company **William Brunson**

Information: P. O. Box 2067
Milan, NM 87021

Driller License
Number: 3175

Licensed Well
Driller Signature: William Brunson

Registered Driller
Apprentice
Signature: No Data

Apprentice
Registration
Number: No Data

Comments: \$dfs

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #63632) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft)	Description
0 40	Med. to Fine Sand
40 90	Med. to Fine Sand with Gravel
90 110	Med. to Fine Light Brown
110 170	Sand Fine to Medium
170 210	Light Brown Sand
210 260	Clay
260 300	Clayey Silt
300 380	Silty Clay
380 490	Clayey Silt
490 690	Lost Circulation
690 1090	Limestone
1090 1340	Shaley Limestone
1340 1360	Siltstone
1360 1500	Shale
1500 1510	Limestone
1510 1580	Clay Stone
1580 1610	Shale
1610 1730	Limestone Interbedded
1730 2300	Limestone

Dia.	New/Used	Type	Setting From/To
7	New Steel	0 686	

STATE OF TEXAS WELL REPORT for Tracking #35834

Owner: El Paso Water Utilities	Owner Well #: PH-01
Address: 1154 Hawkins Blvd. El Paso, TX 79961	Grid #: 49-08-1
Well Location: McGregor Range El Paso, TX 79961	Latitude: 31° 59' 20" N
Well County: El Paso	Longitude: 106° 06' 45" W
Elevation: No Data	GPS Brand Used: No Data
<hr/>	
Type of Work: New Well	Proposed Use: Test Well

Drilling Date: Started: **5/26/2003**
Completed: **8/6/2003**

Diameter of Hole: Diameter: **8 3/4 in From Surface To 575 ft**
Diameter: **6 1/4 in From 575 ft To 785 ft**

Drilling Method: **Mud Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data: 1st Interval: **From 0 ft to 575 ft with 95 cement (#sacks and material)**
2nd Interval: **No Data**
3rd Interval: **No Data**
Method Used: **Pressure Grout**
Cemented By: **Stewart Brothers**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **No Data**
Method of Verification: **n/a**
Approved by Variance: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: Static level: **No Data**
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company: **Stewart Brothers**

Information: **Box 3891**
Milan, NM 87021

Driller License
Number: **3175**

Licensed Well
Driller Signature: **William Brunson**

Registered Driller
Apprentice
Signature: **No Data**

Apprentice
Registration
Number: **No Data**

Comments: **\$dfs**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #35834) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 120 Reddish Sand/Silt
120 474 Reddish Clay with Silt
474 517 Siltstone
517 575 Conglomerate
575 785 Dark Blk to Gn. Shale

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
7	New Steel	0 575 .025	

STATE OF TEXAS WELL REPORT for Tracking #63635

Owner:	El Paso Water Utilities	Owner Well #:	Test Well #2
Address:	1154 Hawkins Blvd. El Paso, TX 79961	Grid #:	49-08-1
Well Location:	McGregor Range El Paso, TX 79961	Latitude:	31° 59' 14" N
Well County:	El Paso	Longitude:	106° 06' 32" W
Elevation:	No Data	GPS Brand Used:	No Data
Type of Work:	New Well	Proposed Use:	Test Well

Drilling Date: Started: 4/9/2003
Completed: 5/9/2003

Diameter of Hole: Diameter: 8 3/4 in From Surface To 583 ft
Diameter: 6 1/4 in From 583 ft To 972 ft

Drilling Method: Mud Rotary

Borehole Completion: Other: (No Data)

Annular Seal Data: 1st Interval: From 0 ft to 583 ft with 105 (#sacks and material)
2nd Interval: No Data
3rd Interval: No Data
Method Used: Pressure Grout
Cemented By: Stewart Brothers Drilling
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: No Data
Method of Verification: No Data
Approved by Variance: No Data

Surface Completion: Surface Slab Installed

Water Level: Static level: No Data
Artesian flow: No Data

Packers: K Packers 551'

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: No Data

Well Tests: No Data

Water Quality: Type of Water: No Data
Depth of Strata: No Data
Chemical Analysis Made: No Data
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company: William Brunson

Information: P. O. Box 2067
Milan, NM 87021

Driller License
Number: 3175

Licensed Well
Driller Signature: William Brunson

Registered Driller
Apprentice
Signature: No Data

Apprentice
Registration
Number: No Data

Comments: \$dfs

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #63635) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	140	Sand Light Brown
140	320	Clay
320	390	Sand
390	430	Silty Sand
430	450	Conglomerate
450	460	Silty Sand
460	500	Conglomerate
500	510	Silt
510	850	Conglomerates
850	972	Bed Rock Limestone w/Shales

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
7	New Steel	0 583	
4 1/2	New Steel	551 972 1/8"	

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 49-15-3A
Located on map YES
Received: C.F.S.

1) OWNER Gene H. Cordle Address 7000 Miracle Lane El Paso, TX 79905
(Name) (Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL:
County EL PASO 10 miles in EAST direction from EL PASO
(N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
with distance and direction from two intersecting sec-
tion or survey lines, or he must locate and identify the
well on an official Quarter- or Half-Scale Texas County
General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☐ See attached map. map on 49-12-1BB

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled	DIAMETER OF HOLE		
	Dia. (in.)	From (ft.)	To (ft.)
<u>3-10-81</u>	<u>12 1/4</u>	<u>0</u>	<u>509</u>

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from 10 ft. to 509 ft.

From To Description and color of formation
(ft.) (ft.) material

<u>0 - 2</u>	<u>SAND</u>
<u>2 - 17</u>	<u>caliche</u>
<u>17 - 28</u>	<u>caliche/clay</u>
<u>28 - 90</u>	<u>SAND</u>
<u>90 - 100</u>	<u>SAND/clay</u>
<u>100 - 125</u>	<u>SAND</u>
<u>125 - 147</u>	<u>caliche/sand/clay</u>
<u>147 - 160</u>	<u>clay/sand</u>
<u>160 - 185</u>	<u>clay</u>
<u>185 - 215</u>	<u>sand/clay</u>
<u>215 - 300</u>	<u>clay</u>
<u>300 - 305</u>	<u>SAND</u>
<u>305 - 390</u>	<u>clay/sand</u>
<u>390 - 405</u>	<u>clay (hard)</u>
<u>405 - 426</u>	<u>clay/sand</u>
<u>426 - 430</u>	<u>SAND</u>
<u>430 - 451</u>	<u>clay/sand</u>
<u>451 - 456</u>	<u>SAND</u>
<u>456 - 458</u>	<u>SAND/clay</u>
<u>458 - 469</u>	<u>clay</u>
<u>469 - 472</u>	<u>clay/sand fine/sand course</u>
<u>472 - 509</u>	<u>clay/sand</u>

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
<u>6"</u>	<input checked="" type="checkbox"/>	<u>Steel (blank)</u>	<u>1</u>	<u>905</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>millslot 0.060 steel</u>	<u>905</u>	<u>915</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>Steel (blank)</u>	<u>915</u>	<u>925</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>millslot 0.060 steel</u>	<u>925</u>	<u>935</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>Steel (blank)</u>	<u>935</u>	<u>950</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>millslot 0.060 steel</u>	<u>950</u>	<u>960</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>Steel (blank)</u>	<u>960</u>	<u>989</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>millslot 0.060</u>	<u>989</u>	<u>999</u>	<u>1250</u>
<u>6"</u>	<input checked="" type="checkbox"/>	<u>Steel (blank)</u>	<u>999</u>	<u>509</u>	<u>1250</u>

Cemented from 0 ft. to 10 ft.

Method used _____

Cemented by G. Lucas
(Company or Individual)

9) WATER LEVEL:

Static level 909 ft. below land surface Date 3-30-81
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 483 ft.

12) WELL TESTS:

☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME GARY LUCAS Water Well Drillers Registration No. 1690
(Type or Print)

ADDRESS 13601 Montana EL PASO TX 79905
(Street or RFD) (City) (State) (Zip)

(Signed) G. Lucas Lucas Drilling Co
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

ATTENTION OWNER: Confidentiality
Privilege Notice on Reverse SideState of Texas
WELL REPORTTexas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER CLINT IND. SCHOOL DISTRICT ADDRESS WELL #3 PLUGGED
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL:
County El Paso miles in 4 direction from El Paso
(NE, SW, etc.) (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☒ SEE ATTACHED MAP

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☒ Plugging

4) PROPOSED USE (Check):

☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply
☐ Irrigation ☒ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:

Date Drilling:

Started Aug 27 1989Completed Aug 30 1989

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8"	Surface	700'

7) BOREHOLE COMPLETION:

☒ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from _____ ft. to _____ ft.

From (ft.) To (ft.) Description and color of formation material

0	6	Sand
6	28	Caliche
28	62	Red Clay Steaks of Gravel
62	90	Sandy Red Clay
90	105	Red Clay
105	165	Sandy Red Clay
165	175	Red Clay Streaks of Gravel
175	220	Sandy Red Clay
220	250	Red Clay
250	315	Hard Red Clay

(Use reverse side if necessary)

13) TYPE PUMP:

☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____Depth to pump bowls, cylinder, jet, etc., OCT. 5 1989

14) WELL TESTS:

Type Test: ☐ Pump ☐ Baller ☐ Other _____
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:

Did the drilling penetrate any strata which contained undesirable constituents?

☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☐ No

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen
			From	To	
		NONE			

9) CEMENTING DATA [Rule 287.44(1)]

Cemented from _____ ft. to _____ ft. No. of Sacks Used _____
_____ ft. to _____ ft. No. of Sacks Used _____

Method used _____

Cemented by _____

10) SURFACE COMPLETION

☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:

Static level 415 ft. below land surface Date 9/1/89
Artesian flow _____ gpm. Date _____

12) PACKERS:

Type _____ Depth _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME LARJON DRILLING COMPANY
(Type or print)WELL DRILLER'S LICENSE NO. 2971WADDRESS 5210 STERN DRIVE

(Street or RFD)

LAS CRUCES

(City)

NM

(State)

88001

(Zip)

(Signed) Sandy Johnson
(Licensed Well Driller)(Signed) _____
(Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 49-15-91 located on map _____

For TDWR use only _____
Well No. 49-15-6A
Located on map 40MM
Received: _____

1) OWNER O.R. Boker (Name) Address 5200 O Shea Rd. El Paso, Tx. 79936
(Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL:
County El Paso 17 miles in east direction from El Paso
(N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
 Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____

XX See attached map. 48-15-6A

3) TYPE OF WORK (Check):

<input checked="" type="checkbox"/> New Well	<input type="checkbox"/> Deepening
<input type="checkbox"/> Reconditioning	<input type="checkbox"/> Plugging

4) PROPOSED USE (Check):

☐ Domestic ☐ Industrial ☐ Public Supply

☐ Irrigation ☒ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other

6) WELL LOG:

Date drilled 12/27/84

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
14. 3/4	Surface	500

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed

☐ Gravel Packed ☐ Other **Plugged**

If Gravel Packed give interval ... from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	6	Sand - red
6	28	clay caliche-white
28	49	sand/gravel - tan
49	57	clay - brown
57	84	sand - tan
84	111	clay - brown
111	208	sand - tan
208	242	clay - brown
242	256	sand - tan
256	307	clay - brown
307	314	sand - tan
314	388	clay - brown
388	398	sand - tan
398	410	clay - brown
410	413	sand (water)
413	445	clay - brown
445	446	sand (water)
446	454	clay - brown
454	461	Hard clay - brown
461	486	clay - brown
486	487	sand (water)
487	500	clay - brown

[illegible]

CEMENTING DATA

Cemented from _____ ft. to _____ ft.
Method used _____
Cemented by _____
(Company or Individual)

9) WATER LEVEL:

Static level _____ ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS:	Type	Depth
--------------	------	-------

11) TYPE PUMP:

☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., _____ ft

12) WELL TESTS:

☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:

WATER RESOURCES

Did you knowingly penetrate any strata which contained subsurface water? ☐ Yes ☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water: _____ Depth of strata: _____

Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard Lee Helms Water Well Drillers Registration No. 2146
(Type or Print)
ADDRESS 14925 Montana El Paso, Tx. 79936
(Street or R.F.D.) (City) (State) (Zip)
(Signed) *Richard Lee Helms* The Montana Company
(Water Well Driller) (Company Name)

DUP

For TWDB use only
Well No. 49-15-2A
Located on map y62
Received: 07-11

TWDBE-WD-8

RECORDED

OCT 11 1979

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

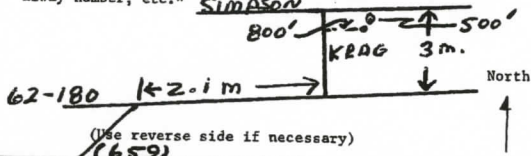
DEPT. OF
State of Texas
WATER RESOURCES
WATER WELL REPORT

For TWDB use only
Well No. 49-15-2A
Located on map 460
Received: 10/11/79

1) OWNER:
Person having well drilled SS & G INC. Address 19000 MONTEBLO AVE, EL PASO, TX
(Name) (Street or RFD) (City) (State)
Landowner SAME Address _____
(Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County EL PASO, 6 miles in EAST direction from EL PASO
(N.E., S.W., etc.) (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.* SIMPSON



or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block School BKG Survey _____

Abstract No. _____

(NW 1/4 NE 1/4 SW 1/4 SE 1/4) of Section 4109 FNL 9 2526 FNL
SEC 8

3) TYPE OF WORK (Check):
☒ New Well Deepening
Reconditioning Plugging
4) PROPOSED USE (Check):
☒ Domestic Industrial Municipal
Irrigation Test Well Other
5) TYPE OF WELL (Check):
☒ Rotary Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 1 1/4 in. Depth drilled 500 ft. Depth of completed well 500 ft. Date drilled 9-20-79
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0-4	SAND	468-474 clay
4-8	Caliche	474-500 sand/clay
8-30	Gravel	
30-200	SAND	
200-370	SAND/clay	
370-406	clay/sand	
406-416	SAND	
416-424	clay	
424-430	SAND	
430-438	clay	
438-468	SAND/clay	

9) Casing:
Type: Old ☒ New ☒ Steel Plastic Other
Cemented from 0 ft. to 50 ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
8-7/8 OD	72	406	1250 W
8-7/8 OD	416	458	1250 W
8-7/8 OD	468	476	1250 W
8-7/8 OD	496	500	1250 W

Type 8-7/8 OD m. 11 slot

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size
8-7/8 OD	406	416	.060
8-7/8 OD	458	468	.060
8-7/8 OD	476	496	.060

7) COMPLETION (Check):
☒ Straight wall ☒ Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level 370 ft. below land surface Date 9-20-79
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes ☒ No If yes, by whom?

Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.

Artesian flow _____ gpm

Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME GARY LUCAS Water Well Drillers Registration No. 1690
(Type or Print)
ADDRESS 10050 N. Loop EL PASO TX 79927
(Street or RFD) (City) (State)
(Signed) [Signature] LUCAS DRILLING CO INC.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only

Well No. 49-15-26

Located on map YES

Received: RUG

1) OWNER

BRYAN Ruiz

(Name)

Address

1424 DENNIS

(Street or RFD)

EIPASO, TX

(City)

79925

(State)

(Zip)

2) LOCATION OF WELL:

County

EIPASO

18

miles in

EAST

(N.E., S.W., etc.)

direction from

EIPASO

(Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

Legal description:

Section No. 17

Block No. 6

Township 2

Abstract No.

Survey Name T-P RR Survey

Distance and direction from two intersecting section or survey lines

820' EAST SEC 18 1730' NORTH SEC 20

See attached map.

3) TYPE OF WORK (Check):

☒ New Well

☐ Deepening

☐ Reconditioning

☐ Plugging

4) PROPOSED USE (Check):

☐ Domestic☐ Industrial☐ Public Supply☐ Irrigation☒ Test Well☐ Other

5) DRILLING METHOD (Check):

☒ Mud Rotary☐ Air Hammer☐ Driven☐ Bored☐ Air Rotary☐ Cable Tool☐ Jetted☐ Other

6) WELL LOG:

Date drilled

9/25/81

DIAETER OF HOLE

Dis. (in.)

From (ft.)

To (ft.)

14 3/4

Surface

520

7) BOREHOLE COMPLETION:

☐ Open Hole☐ Straight Wall☐ Underreamed

☐ Gravel Packed☐ Other COVERED UP

If Gravel Packed give interval ... from ... ft. to ... ft.

From (ft.)

To (ft.)

Description and color of formation material

0

6

SAND - RED

6

34

CALICHE - WHT.

34

60

SAND GRAVEL - TAN

60

80

CLAY - BRWN

80

90

SAND - TAN

90

120

CLAY - BRWN

120

200

SAND - TAN

200

212

CLAY - BRWN

212

245

SAND - TAN

245

249

SANDSTONE - WHT

249

261

CLAY - BRWN

261

275

SAND - TAN

275

288

CLAY - BRWN

288

305

SAND - TAN

305

318

CLAY - BRWN

318

365

SAND - TAN

365

520

CLAY - BRWN

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)

New or Used

Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial

Setting (ft.)

From

To

Gage Casing Screen

CEMENTING DATA

Cemented from

ft. to

ft.

Method used

Cemented by

(Company or Individual)

9) WATER LEVEL:

Static level

0

ft. below land surface

Date

Artesian flow

gpm.

Date

10) PACKERS:

Type

Depth

11) TYPE PUMP:

☐ Turbine☐ Jet☐ Submersible☐ Cylinder☐ Other

Depth to pump bowls, cylinder, jet, etc.,

ft.

12) WELL TESTS:

☐ Type Test;☐ Pump☐ Bailor☐ Jetted☐ Estimated

Yield:

0

gpm with

ft. drawdown after

hrs.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water?

☐ Yes☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water?

Depth of strata

Was a chemical analysis made?

☐ Yes☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME

RICHARD HELMS

(Type or Print)

Water Well Drillers Registration No.

2146

ADDRESS

14925 MONTANA

(Street or RFD)

EIPASO, TX

(City)

79936

(State)

(Zip)

(Signed)

RICHARD HELMS

(Water Well Driller)

THE MONTANA CO.

(Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 49-15-2D
Located on map yes
Received: C.F.S.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

1) OWNER GARY PORAS (Name) Address 5505 ROSA (Street or RFD) EI PASO, TX (City) (State) (Zip)
2) LOCATION OF WELL EI PASO County 18 miles in EAST direction from EI PASO (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
 Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):

<input checked="" type="checkbox"/> New Well	<input type="checkbox"/> Deepening
<input type="checkbox"/> Reconditioning	<input type="checkbox"/> Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Public Supply

☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other

6) WELL LOG:

Date drilled 5/15/83

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
	Surface	

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed

☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval . . . from _____ ft. to _____

From (ft.)	To (ft.)	Description and color of formation material
---------------	-------------	--

0	2	SAND - RED
2	19	Caliche - WHT
19	210	SAND - TAN
210	221	CLAY - BRWN
221	235	SAND - TAN
235	238	CLAY - BRWN
238	251	SAND - TAN
251	282	CLAY - BRWN
282	294	SAND - TAN
294	328	CLAY - BRWN
328	332	SAND - TAN
332	370	CLAY - BRN
370	375	SAND - TAN
375	376	CLAY - BRWN
376	381	SAND - TAN
381	490	CLAY - BRWN

[illegible]

CEMENTING DATA

Cemented from _____ ft. to _____ ft.
Method used _____
Cemented by _____
(Company or Individual)

9) WATER LEVEL:

Static level _____ ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS:	Type	Depth
--------------	------	-------

11) TYPE PUMP:

☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder

☐ Other _____

Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:

☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☐ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water: _____ Depth of strata: _____

Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard L. Helms (Type or Print) Water Well Drillers Registration No. 2146
ADDRESS 1425 MONTANA EL PASO, TX 79936
(Street or RFD) (City) (State) (Zip)
(Signed) Richard L. Helms The Montana Co.
(Water Well Driller) (Company Name)

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 49-15-2E
Located on map YES
Received: RWP

1) OWNER MARCIAL MENDIZABAR Address 6330 Geiger EL PASO, TX 79915
(Name) (Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL:
County EL PASO 18 miles in EAST direction from EL PASO
(N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
with distance and direction from two intersecting sec-
tion or survey lines, or he must locate and identify the
well on an official Quarter- or Half-Scale Texas County
General Highway Map and attach the map to this form.

☐ Legal description:
Section No. 17 Block No. 6 Township 2
Abstract No. _____ Survey Name T-P RR SURVEY
Distance and direction from two intersecting section or survey lines 300' EAST
Sec 18; 400' NORTH Sec. 20
☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
<u>15 3/4</u>	Surface	<u>455</u>

Date drilled 10/7/81

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from 275 ft. to 455 ft.

From To
(ft.) (ft.)

Description and color of formation
material

0	6	SAND - RED
6	30	CALICHE - WHITE
30	105	SAND - GRAVEL - TAN
105	165	SAND - TAN
165	182	CLAY - BROWN
182	215	SAND - TAN
215	245	CLAY - BROWN
245	270	SAND - TAN
270	273	SANDSTONE - ROSE
273	307	SAND - TAN
307	312	CLAY - BROWN
312	360	SAND - TAN
360	374	CLAY - BROWN
374	378	SAND - TAN
378	385	CLAY - RED
385	396 (water)	SAND - TAN
396	400	CLAY - BROWN
400	406	SAND - TAN
406	420	CLAY - BROWN
420	426	SAND - TAN
426	435	CLAY - BROWN
435	438	SAND - TAN
438	455	CLAY - BROWN

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
<u>6</u>	<u>N</u>	<u>PLASTIC SLOTTED</u>	<u>0</u>	<u>455</u>	

CEMENTING DATA

Cemented from _____ ft. to _____ ft.
Method used _____
Cemented by _____
(Company or Individual)

9) WATER LEVEL:

Static level 360 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 441 ft.

12) WELL TESTS:

☐ Type Test: ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated
Yield: 10 gpm with 0 ft. drawdown after 5 hrs.

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata? _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME RICHARD L. HELMS Water Well Drillers Registration No. 2146
(Type or Print)
ADDRESS 14925 MONTANA EL PASO, TX. 79936
(Street or RFD) (City) (State) (Zip)
(Signed) Richard L. Helms The MONTANA Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TL 49-15-206

Send original copy by
certified mail to the
Texas Water Development Board
P. O. Box 13087
Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 49-15-5E
Located on map yes
Received: 78/1
dlb

1) OWNER:

Person having well drilled Bob O'Kelley
(Name)

Address 12000 BLOCK Montana Ave
(Street or RFD) (City) (State)

Landowner SAME
(Name)

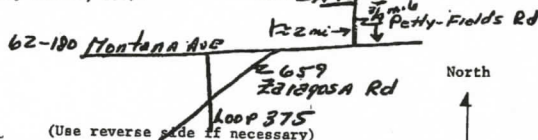
Address EL PASO, TX
(Street or RFD) (City) (State)

2) LOCATION OF WELL:

County EL PASO, 10 miles in EAST direction from EL PASO

(N.E., S.W., etc.) (Town)

Locate by sketch map showing landmarks, roads, creeks,
highway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from
adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW 1/4 NE 1/4 SW 1/4 SE 1/4) of Section _____

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Municipal
☐ Irrigation ☐ Test Well ☐ Other

5) TYPE OF WELL (Check):

☒ Rotary ☐ Driven ☐ Dug
☐ Cable ☐ Jetted ☐ Bored

6) WELL LOG:

Diameter of hole 12 in. Depth drilled 500 ft. Depth of completed well 500 ft. Date drilled 8-2-77

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0-2	Top Soil	260-368-CLAY/sand
2-7	Caliche	368-430-SAND/clay
7-20	Caliche & H/c clay	430-438-HARD CLAY
20-24	Sand	438-500-CLAY/sand
24-28	Clay	
28-42	Gravel/sand & clay	
42-60	Clay/sand	
60-140	Gravel/clay/sand	
140-152	SAND	
152-240	H/c clay/sand	
240-260	HARD CLAY	

9) CASING:

Type: Old ☒ New ☒ Steel Plastic Other

Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
6"	42'	470'	250W
6"	490'	500'	250W

10) SCREEN:

Type STAINLESS STEEL

Perforated WIRE WOUND Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size
4"	470'	490'	0.010

7) COMPLETION (Check):

Straight wall ☒ Gravel packed ☐ Other
Under reamed ☐ Open Hole

8) WATER LEVEL:

Static level 385 ft. below land surface Date 8-2-77
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., 472 ft.
below land surface.

11) WELL TESTS:

Was a pump test made? Yes No If yes, by whom?

Yield: 5 gpm with 87 ft. drawdown after 1 hrs.

Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.

Artesian flow _____ gpm

Temperature of water _____

12) WATER QUALITY:

Was a chemical analysis made? ☒ Yes No

Did any strata contain undesirable water? Yes ☒ No

Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that
each and all of the statements herein are true to the best of my knowledge and belief.

NAME GARY LUCAS
(Type or Print)

Water Well Drillers Registration No. 1690

ADDRESS 10958 N. LOOP
(Street or RFD)

EL PASO
(City)

TX 79927
(State)

(Signed) [Signature]
(Water Well Driller)

LUCAS Drilling Co.
(Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Enrique Ortiz Address 14673 Cassidy Dr. EL Paso Tex 79936
(Name) (Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL:
County EL Paso County miles in 12 NE direction from EL Paso TEXAS
(N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
with distance and direction from two intersecting section
or survey lines, or he must locate and identify the
well on an official Quarter- or Half-Scale Texas County
General Highway Map and attach the map to this form.

☐ Legal description:
Section No. 6 Block No. 2 Township EL Paso Tex
Abstract No. Survey Name John C Drissel
Distance and direction from two intersecting section or survey lines

☒ See attached map.

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other

6) WELL LOG:

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
6"	Surface	480
Date drilled <u>March 30, 1984</u>		

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other

If Gravel Packed give interval ... from 380 ft. to 480 ft.

From (ft.)	To (ft.)	Description and color of formation material
------------	----------	---

0	4	Sand
4	6	Calichi
6	12	Clay - Calichi
12	18	Clay
18	51	Gravel
51	68	Gravel - Sand - Clay
68	78	Clay
78	180	Sand
180	255	Sand - Clay
255	273	Clay - Sand
273	291	Hard Clay
291	296	Clay
296	305	Sand
305	326	Hard Clay
326	342	Sand - Clay
342	346	Calichi
346	378	Clay
378	410	Clay Sand
410	414	Hard Clay
414	427	Clay
427	430	Hard Clay
430	450	Clay Sand
450	452	Hard Clay
452	461	Clay
461	462	Clay
462	480	Sand

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgt., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
6"	New	Steel	437	ft	1/4
6"	New	.030 Slotted	437	477	1/4

CEMENTING DATA

Cemented from Top ft. to 350 ft.
Method used Pour from Top
Cemented by B+G Drilling Co
(Company or Individual)

9) WATER LEVEL:

Static level 380 ft. below land surface Date 3-30-84
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

None

11) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other

Depth to pump bowls, cylinder, jet, etc., 440 ft.

12) WELL TESTS:

☐ Type Test: ☒ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 25 gpm with 20 ft. drawdown after 72 hrs.

13) WATER QUALITY:

DEPT. OF
WATER RESOURCES
Did you knowingly permit this well to be drilled or used for undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

COMPANY NAME B+G Drilling Co. Water Well Driller's License No. 2307
(Type or Print)
ADDRESS 10044 Steadham Cir EL Paso Texas 79927
(Street or RFD) (City) (State) (Zip)
(Signed) Gabriel Barea (Signed) _____
(Licensed Water Well Driller) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 491555L
Located on map _____

Send original copy by certified
return receipt requested mail to:

TNRCC
MC 177
P.O. Box 13087
Austin, TX 78711-3087

State of Texas PLUGGING REPORT

(This form must be completed and filed with the TNRCC
within 30 days following the date the well is plugged as
required by current statutory law.)

Texas Water Well Drillers Advisory Council

MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER EL PASO COUNTY (Name) ADDRESS 500 E. SAN ANTONIO RM. 407 EL PASO TX. 79901
(Street or RFD) (City) (State) (Zip)
2) ADDRESS OF WELL: E & L WATER CORP
County EL PASO 4190 KRAG EL PASO TX. GRID # 49-15-5(2)
(Street, RFD or other) (City) (State) (Zip)

3) OWNER'S WELL NO: #1 4) WELL TYPE (Check): ☒ Water ☐ Monitor ☐ Injection ☐ De-watering

Driller, Pump Installer, or Landowner performing the plugging operations must locate and identify the location of the well within a specific grid on a full scale-gridded County map available from the TNRCC/Installers Certification Program. The location of the well should be denoted within the grid by placing a corresponding dot in the grid to the right. The legal description section below is optional.

☐ LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two
intersecting section lines or survey lines: _____

N 3144 27
W 106 10 31

B. HISTORICAL DATA ON WELL TO BE PLUGGED (if available)

6) Driller UNKNOWN License No. _____ City DEC 14 2001
7) Drilled _____ 19____; 8) Diameter of hole _____ inches; 9) Total depth of well _____ feet
RECEIPT # _____ AMOUNT _____

C. CURRENT PLUGGING DATA

10) Date well plugged 9-11-01 9

11) Sketch of well: Using space at right, show method of plugging the well including all casing and cemented intervals.

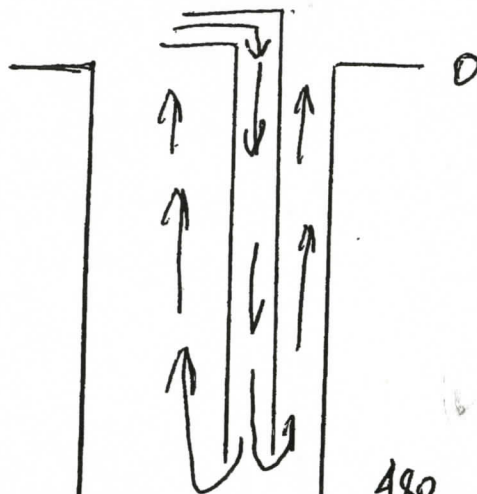
12) Name of Driller/Pump Installer actually performing the plugging operations
PAUL MCANEAR

License number 4469WI

13) Casing and cementing data relative to the plugging operations:

DIAMETER (inches)	CASING LEFT IN WELL	
	FROM (feet)	TO (feet)
6"	0	480
CEMENT PLUG(S) PLACED IN WELL		SACK(S) OF CEMENT USED
FROM (feet)	TO (feet)	
0	480	86 SX

POSITIVE DISPLACEMENT



D. VALIDATION OF INFORMATION INCLUDED IN FORM

I hereby certify that this well was plugged by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 13 will result in the report(s) being returned for completion and resubmittal.

Company or Individual's Name (type or print) WEST TEXAS WATER WELL SERVICE

Address: Street or RFD 3432 W. UNIVERSITY BLVD. City ODESSA State TX. Zip 79764

Signatures:

Paul McAnear 9-13-01
Licensed Driller/Pump Installer Date

[Signature] 11-30-01
Owner of Well Date

Trainee/Apprentice

Date

White - TNRCC

Yellow - Well Owner

Pink - Licensed Well Driller/Pump Installer

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 49-15-51
Located on map 503
Received: C.F.S.

1) OWNER Nick Nabhan Address 14549 Montana El Paso, Tx. 79936
(Name) (Street or RFD) (City) (State) (Zip)
2) LOCATION OF WELL El Paso 17 miles in east direction from El Paso
County (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
with distance and direction from two intersecting sec-
tion or survey lines, or he must locate and identify the
well on an official Quarter- or Half-Scale Texas County
General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 5/1/84

DIAMETER OF HOLE

Dia. (in.) From (ft.) To (ft.)

14. 3/4 Surface 468

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from 340 ft. to 468 ft.

From To Description and color of formation
(ft.) (ft.) material

0 4 Top soil red
4 28 caliche white

28 34 sand gravel brown
34 53 sand brown tan

53 66 clay brown

66 89 sand tan

89 99 sand gravel brown

99 106 clay brown

106 165 sand tan

165 182 clay brown

182 191 sand tan

191 270 clay brown

270 281 sand tan

281 292 clay brown

292 320 sand tan

320 326 clay brown

326 355 sand tan

355 376 clay brown

376 382 sand tan

382 409 clay brown

409 411 sand tan

411 416 clay brown

416 419 sand tan

419 421 clay brown

421 431 sand tan

431 446 clay brown

446 462 sand tan

462 468 (Use reverse side if necessary) clay brown

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. New Steel, Plastic, etc. Setting (ft.) Gage
(in.) or Used Perf., Slotted, etc. Casing
Screen Mfg., if commercial From To Screen

6 N steel 0 388

6 N perforated 388 468

CEMENTING DATA

Cemented from 0 ft. to 15 ft.

Method used _____

Cemented by The Montana Co.
(Company or Individual)

9) WATER LEVEL:

Static level 360 ft. below land surface Date 5/19/84

Artesian flow _____ gpm. Date _____

10) WELL TESTERS:

Type Depth

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable
water? ☐ Yes ☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☐ No

12) WELL TESTS:

☐ Type Test: ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated

Yield: 11 gpm with 0 ft. drawdown after 7 hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that
each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard Lees Helms Water Well Drillers Registration No. 2146
(Type or Print)

ADDRESS 14925 Montant El Paso, tx. 79936
(Street or RFD) (City) (State) (Zip)

(Signed) Richard Lees Helms The Montana Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

by
the
Department of Water Resources
087
as 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 49-15-6E
Located on map YES
Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

OWNER Joe HANSON
(Name)

Address 12500 MONTANA EL PASO, TX 79936
(Street or RFD) (City) (State) (Zip)

LOCATION OF WELL
County EL PASO

18 miles in EAST direction from EL PASO
(N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☐ Domestic ☐ Industrial ☒ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 8/10/83

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
<u>14 3/4</u>	Surface	<u>516</u>

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from 350 ft. to 516 ft.

From (ft.)	To (ft.)	Description and color of formation material
<u>0</u>	<u>18</u>	<u>CALICHE - WHT</u>
<u>18</u>	<u>32</u>	<u>SAND GRAVEL - TAN</u>
<u>32</u>	<u>41</u>	<u>CLAY - BRWN</u>
<u>41</u>	<u>80</u>	<u>SAND TAN</u>
<u>80</u>	<u>91</u>	<u>CLAY - BRWN</u>
<u>91</u>	<u>212</u>	<u>SAND - TAN</u>
<u>212</u>	<u>220</u>	<u>CLAY - BRWN</u>
<u>220</u>	<u>257</u>	<u>SAND - TAN</u>
<u>257</u>	<u>269</u>	<u>CLAY - BRWN</u>
<u>269</u>	<u>290</u>	<u>SAND - TAN</u>
<u>290</u>	<u>321</u>	<u>CLAY - BRWN</u>
<u>321</u>	<u>338</u>	<u>SAND - TAN</u>
<u>338</u>	<u>365</u>	<u>CLAY - BRWN</u>
<u>365</u>	<u>372</u>	<u>SAND - TAN</u>
<u>372</u>	<u>389</u>	<u>CLAY - BRWN</u>
<u>389</u>	<u>391</u>	<u>SAND - TAN</u>
<u>391</u>	<u>396</u>	<u>CLAY - BRWN</u>
<u>396</u>	<u>401</u>	<u>SAND - TAN</u>
<u>401</u>	<u>409</u>	<u>CLAY - BRWN</u>
<u>409</u>	<u>413</u>	<u>SAND - TAN</u>
<u>413</u>	<u>420</u>	<u>CLAY - BRWN</u>
<u>420</u>	<u>423</u>	<u>SAND - TAN</u>
<u>423</u>	<u>431</u>	<u>CLAY - BRWN</u>
<u>431</u>	<u>435</u>	<u>SAND - TAN</u>
<u>435</u>	<u>452</u>	<u>CLAY - BRWN</u>
<u>452</u>	<u>460</u>	<u>SAND - TAN</u>
<u>460</u>	<u>468</u>	<u>CLAY - BRWN</u>

(Use reverse side if necessary) OVER

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
<u>6 N</u>	<u>N</u>	<u>Steel Pipe</u>	<u>0</u>	<u>436</u>	
<u>6 N</u>	<u>N</u>	<u>Perf. Steel</u>	<u>436</u>	<u>511</u>	
<u>6 N</u>	<u>N</u>	<u>Steel Pipe</u>	<u>511</u>	<u>516</u>	

CEMENTING DATA

Cemented from 0 ft. to 350 ft.

Method used PUMP

Cemented by MONTANA Co.
(Company or Individual)

9) WATER LEVEL:

Static level 390 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth _____

RECEIVED

SEP 12 1983

DEPT. OF
WATER RESOURCES

11) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 387 ft.

12) WELL TESTS:

☐ Type Test: ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated
Yield: 17 gpm with 1 ft. drawdown after 200 hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Richard Lee Helms Water Well Drillers Registration No. 2146
(Type or Print)

ADDRESS 14925 MONTANA EL PASO TX 79936
(Street or RFD) (City) (State) (Zip)

(Signed) Richard Lee Helms The MONTANA Co
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

Send original copy by certified
return receipt requested mail to:

TNRCC
MC 177
P.O. Box 13087
Austin, TX 78711-3087

State of Texas PLUGGING REPORT

(This form must be completed and filed with the TNRCC
within 30 days following the date the well is plugged as
required by current statutory law.)

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER EL PASO COUNTY ADDRESS 500 E. SAN ANTONIO RM 407 EL PASO TX. 79901
(Name) (Street or RFD) (City) (State) (Zip)
2) ADDRESS OF WELL: FERN VILLAGE WATER SYSTEM
County EL PASO 14999 PETTY FIELDS EL PASO TX. GRID # 49-16-1(1)
(Street, RFD or other) (City) (State) (Zip)

3) OWNER'S WELL NO: #1 4) WELL TYPE (Check): ☒ Water ☐ Monitor ☐ Injection ☐ De-watering

Driller, Pump Installer, or Landowner performing the plugging operations must locate and identify the location of the well within a specific grid on a full
scale-gridded County map available from the TNRCC/Installers Certification Program. The location of the well should be denoted within the grid by
placing a corresponding dot in the grid to the right. The legal description section below is optional.

LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two
intersecting section lines or survey lines: _____

RECEIVED
TDLR MAIL ROOM

DEC 14 2001

B. HISTORICAL DATA ON WELL TO BE PLUGGED (If available)

6) Driller UNKNOWN License No. _____
7) Drilled _____ 19____; 8) Diameter of hole _____ inches; 9) Total depth of well _____ feet.

C. CURRENT PLUGGING DATA

10) Date well plugged 9-11-01

11) Sketch of well: Using space at right, show method of plugging the well
including all casing and cemented intervals.

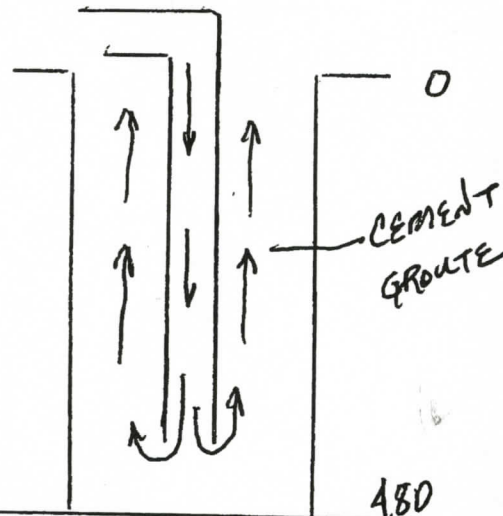
12) Name of Driller/Pump Installer actually performing the plugging operations
PAUL McANEAR

License number 4469WI

13) Casing and cementing data relative to the plugging operations:

DIAMETER (inches)	CASING LEFT IN WELL	
	FROM (feet)	TO (feet)
10"	0	480
CEMENT PLUG(S) PLACED IN WELL		SACK(S) OF CEMENT USED
FROM (feet)	TO (feet)	
0	480	248 SX

POSITIVE DISPLACEMENT



D. VALIDATION OF INFORMATION INCLUDED IN FORM

I hereby certify that this well was plugged by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I
understand that failure to complete items 1 thru 13 will result in the report(s) being returned for completion and resubmittal.

Company or Individual's Name (type or print) WEST TEXAS WATER WELL SERVICE

Address: Street or RFD 3432 W. UNIVERSITY BLVD. City ODESSA State TX. Zip 79764

Signatures:

Paul McAnear
Licensed Driller/Pump Installer

9-13-01
Date

[Signature]
Owner of Well

11-30-01
Date

Trainee/Apprentice

Date

White - TNRCC

Yellow - Well Owner

Pink - Licensed Well Driller/Pump Installer

Send original copy by certified
return receipt requested mail to:

TNRCC
MC 177
P.O. Box 13087
Austin, TX 78711-3087

State of Texas PLUGGING REPORT

(This form must be completed and filed with the TNRCC
within 30 days following the date the well is plugged as
required by current statutory law.)

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER EL PASO COUNTY ADDRESS 500 E. SAN ANTONIO RM. 407 EL PASO TX. 79901
(Name) (Street or RFD) (City) (State) (Zip)
2) ADDRESS OF WELL: McCRACKEN ESTATES
County EL PASO 1336 JAMES KELLY EL PASO TX. GRID # 49-16-1 (2)
(Street, RFD or other) (City) (State) (Zip)

3) OWNER'S WELL NO: #2 4) WELL TYPE (Check): ☒ Water ☐ Monitor ☐ Injection ☐ De-watering

Driller, Pump Installer, or Landowner performing the plugging operations must locate and identify the location of the well within a specific grid on a full scale-gridded County map available from the TNRCC/Installers Certification Program. The location of the well should be denoted within the grid by placing a corresponding dot in the grid to the right. The legal description section below is optional.

5) N31 51 13
W 106 06 13

☐ LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two
intersecting section lines or survey lines: _____

RECEIVED	
TDLR MAIL ROOM	
DEC 14 2001	
SH	

B. HISTORICAL DATA ON WELL TO BE PLUGGED (if available)

6) Driller UNKNOWN License No. _____
7) Drilled _____ 19____; 8) Diameter of hole _____ inches; 9) Total depth of well _____ feet.

C. CURRENT PLUGGING DATA

10) Date well plugged 9-11-01 9

11) Sketch of well: Using space at right, show method of plugging the well including all casing and cemented intervals.

12) Name of Driller/Pump Installer actually performing the plugging operations

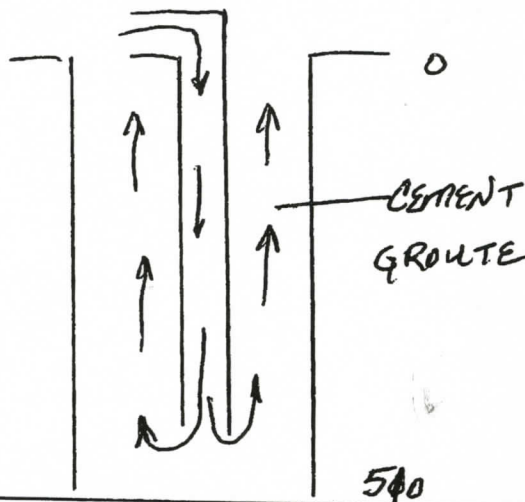
PAUL McANEAR

License number 4469WI

13) Casing and cementing data relative to the plugging operations:

DIAMETER (inches)	CASING LEFT IN WELL	
	FROM (feet)	TO (feet)
6"	0	510
CEMENT PLUG(S) PLACED IN WELL		SACK(S) OF CEMENT USED
FROM (feet)	TO (feet)	
0	510	172 SX

POSITIVE DISPLACEMENT



D. VALIDATION OF INFORMATION INCLUDED IN FORM

I hereby certify that this well was plugged by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 13 will result in the report(s) being returned for completion and resubmittal.

Company or Individual's Name (type or print) WEST TEXAS WATER WELL SERVICE

Address: Street or RFD 3432 W. UNIVERSITY BLVD. City ODESSA State TX. Zip 79764

Signatures:

Paul McAnear
Licensed Driller/Pump Installer

9-13-01
Date

[Signature]
Owner of Well

11-30-01
Date

Trainee/Apprentice

Date

White - TNRCC

Yellow - Well Owner

Pink - Licensed Well Driller/Pump Installer

Send original copy by certified
return receipt requested mail to:

TNRCC
MC 177
P.O. Box 13087
Austin, TX 78711-3087

State of Texas PLUGGING REPORT

(This form must be completed and filed with the TNRCC
within 30 days following the date the well is plugged as
required by current statutory law.)

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER EL PASO COUNTY ADDRESS 500 E. SAN ANTONIO RM. 407 EL PASO TX. 79901
(Name) (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: McCRACKEN ESTATES
County EL PASO 5200 OSHEA EL PASO TX. GRID # 49-16-1 (3)
(Street, RFD or other) (City) (State) (Zip)

3) OWNER'S WELL NO: #1 4) WELL TYPE (Check): ☒ Water ☐ Monitor ☐ Injection ☐ De-watering

Driller, Pump Installer, or Landowner performing the plugging operations must locate and identify the location of the well within a specific grid on a full scale-gridded County map available from the TNRCC/Installers Certification Program. The location of the well should be denoted within the grid by placing a corresponding dot in the grid to the right. The legal description section below is optional.

☐ LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two
intersecting section lines or survey lines: _____

RECEIVED
TDLR MAIL ROOM

DEC 14 2001

B. HISTORICAL DATA ON WELL TO BE PLUGGED (if available)

6) Driller UNKNOWN License No. _____ RECEIPT # _____ City _____ AMOUNT _____

7) Drilled _____ 19____; 8) Diameter of hole _____ inches; 9) Total depth of well _____ feet.

C. CURRENT PLUGGING DATA

10) Date well plugged 9-11-01 13

11) Sketch of well: Using space at right, show method of plugging the well including all casing and cemented intervals.

12) Name of Driller/Pump Installer actually performing the plugging operations

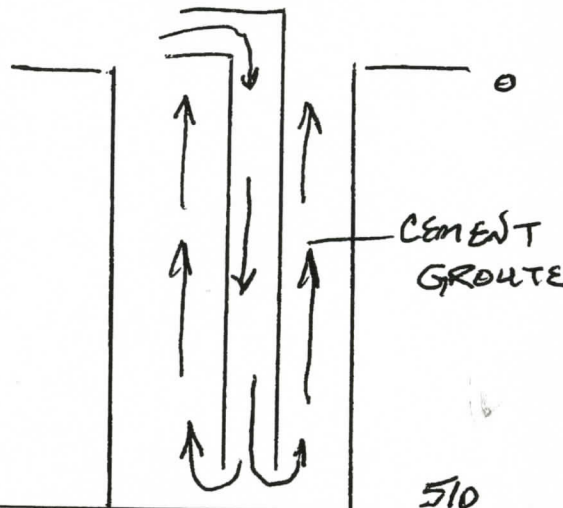
PAUL McANEAR

License number 4469WI

13) Casing and cementing data relative to the plugging operations:

DIAMETER (inches)	CASING LEFT IN WELL	
	FROM (feet)	TO (feet)
10"	0	510
CEMENT PLUG(S) PLACED IN WELL		SACK(S) OF CEMENT USED
FROM (feet)	TO (feet)	
0	510	240 SX

POSITIVE DISPLACEMENT



D. VALIDATION OF INFORMATION INCLUDED IN FORM

I hereby certify that this well was plugged by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 13 will result in the report(s) being returned for completion and resubmittal.

Company or Individual's Name (type or print) WEST TEXAS WATER WELL SERVICE

Address: Street or RFD 3432 W. UNIVERSITY BLVD. City ODESSA State TX. Zip 79764

Signatures:

Paul McAnear
Licensed Driller/Pump Installer

9-13-01
Date

[Signature]
Owner of Well

11-30-01
Date

Trainee/Apprentice

Date

White - TNRCC

Yellow - Well Owner

Pink - Licensed Well Driller/Pump Installer

Send original copy by certified
return receipt requested mail to:

TNRCC
MC 177
P.O. Box 13087
Austin, TX 78711-3087

State of Texas PLUGGING REPORT

(This form must be completed and filed with the TNRCC
within 30 days following the date the well is plugged as
required by current statutory law.)

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER EL PASO COUNTY ADDRESS 500 E. SAN ANTONIO RM 407 EL PASO, TX. 79901
(Name) (Street or RFD) (City) (State) (Zip)
2) ADDRESS OF WELL: MONTANA LAND ESTATES
County EL PASO 4630 RANCHO VISTA EL PASO TX. GRID # 49-16-1(4)
(Street, RFD or other) (City) (State) (Zip)

3) OWNER'S WELL NO: #1 4) WELL TYPE (Check): ☒ Water ☐ Monitor ☐ Injection ☐ De-watering

Driller, Pump Installer, or Landowner performing the plugging operations must locate and identify the location of the well within a specific grid on a full
scale-gridded County map available from the TNRCC/Installers Certification Program. The location of the well should be denoted within the grid by
placing a corresponding dot in the grid to the right. The legal description section below is optional.

☐ LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two
intersecting section lines or survey lines: _____

N 31 51 41
W 106 05 34

B. HISTORICAL DATA ON WELL TO BE PLUGGED (if available)

6) Driller UNKNOWN License No. _____
7) Drilled _____ 19____; 8) Diameter of hole _____ inches; 9) Total depth of well _____ AMOUNT _____

C. CURRENT PLUGGING DATA

10) Date well plugged 9-11-01 ☒

11) Sketch of well: Using space at right, show method of plugging the well
including all casing and cemented intervals.

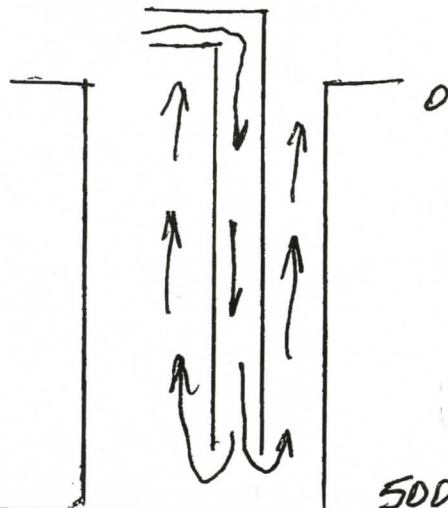
12) Name of Driller/Pump Installer actually performing the plugging operations
PAUL McANEAR

License number 4469WI

13) Casing and cementing data relative to the plugging operations:

DIAMETER (inches)	CASING LEFT IN WELL	
	FROM (feet)	TO (feet)
10	0	500
CEMENT PLUG(S) PLACED IN WELL		SACK(S) OF CEMENT USED
FROM (feet)	TO (feet)	
0	500	265 SX

POSITIVE DISPLACEMENT



D. VALIDATION OF INFORMATION INCLUDED IN FORM

I hereby certify that this well was plugged by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I
understand that failure to complete items 1 thru 13 will result in the report(s) being returned for completion and resubmittal.

Company or Individual's Name (type or print) WEST TEXAS WATER WELL SERVICE

Address: Street or RFD 3432 W. UNIVERSITY BLVD. City ODESSA State TX. Zip 79764

Signatures:

Paul McAnear
Licensed Driller/Pump Installer

9-13-01
Date

[Signature]
Owner of Well

11-30-01
Date

Trainee/Apprentice

Date

White - TNRCC

Yellow - Well Owner

Pink - Licensed Well Driller/Pump Installer

Please use black ink.

ATTENTION: OWNER: Confidentiality
Privilege Notice on Reverse SideState of Texas
WELL REPORTTexas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) OWNER SUNCITY Redi-Mix ADDRESS 425 N Americas Av EL PASO TX 79907
(Name) (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: 18501 MONTANA EL PASO TX 79938 GRID # 49-16-1(5)
County EL PASO (Street, RFD or other) (City) (State) (Zip)

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Monitor ☐ Environmental Soil Boring ☐ Domestic
☒ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No

5)

6) WELL LOG:

Date Drilling:

Started 11-20 1995Completed 4-23 1996

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
<u>9 7/8"</u>	Surface	<u>1080</u>

7) DRILLING METHOD (Check):

☐ Driven
☐ Air Rotary ☒ Mud Rotary ☐ Bored
☐ Air Hammer ☐ Cable Tool ☐ Jetted
☐ Other _____

From (ft.) To (ft.) Description and color of formation material

AS PER DRILL LOGS

8) Borehole Completion (Check):

☐ Open Hole ☐ Straight Wall
☐ Underreamed ☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from 20 ft. to 1000 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen
			From	To	
<u>6"</u>	<u>New</u>	<u>Plastic</u>	<u>0</u>	<u>720</u>	<u>sch. 80</u>
<u>4"</u>	<u>New</u>	<u>Plastic screen</u>	<u>720</u>	<u>1000</u>	<u>1.050</u>

RECEIVED
JUN 15 1996
TEXAS NATURAL RESOURCE
CONSERVATION COMMISSION

9) CEMENTING DATA [Rule 338.44(1)]

Cemented from 1080 ft. to 1000 ft. No. of sacks used 35
ft. to _____ ft. No. of sacks used _____Method used HALLIBURTONCemented by SALAZAR

Distance to septic system field lines or other concentrated contamination _____ ft.

Method of verification of above distance N/A

13) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 880 ft.

14) WELL TESTS:

Type test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated

Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable constituents?

☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☒ No

10) SURFACE COMPLETION

☒ Specified Surface Slab Installed [Rule 338.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)]
☐ Pitless Adapter Used [Rule 338.44(3)(b)]
☐ Approved Alternative Procedure Used [Rule 338.71]

11) WATER LEVEL:

Static level 660 ft. below land surface

Date _____

Artesian flow _____ gpm.

Date _____

12) PACKERS:

Type Depth

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Joe SALAZAR DRILLING, CO
(Type or print)ADDRESS 833 LA MANCHA CT.
(Street or RFD)(Signed) Joe Salazar
(Licensed Well Driller)WELL DRILLER'S LICENSE NO. 3201-WEL PASO TX 79922
(City) (State) (Zip)(Signed) _____
(Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

**Appendix F Dr. Anthony Tarquin Correspondence on Water/Wastewater
Treatment Process**





February 21, 2010

Mr. Ben Knape
Underground Injection Control Permits Team
MC-233
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Department of
Civil Engineering

**RE: Treatment of Fusselman-Montoya-El Paso Group Water
El Paso Water Utilities
Proposed Aquifer Exemption for Class V Injection Wells
TCEQ Authorization No. 5X2700062, WWC No. 12124075, CN602957060/RN104809389**

Dear Mr. Knape:

This letter is written as an attachment to the Aquifer Exemption Request for Class V Injection Wells that were drilled under Authorization No. 5X2700062. For the past eight years, I have been involved in research related to water recovery from silica-saturated reverse osmosis concentrate generated at the Kay Bailey Hutchison (KBH) desalting plant that is owned and operated by El Paso Water Utilities (EPWU). I was asked to render my opinion about the advisability of injecting their RO concentrate into the Fusselman-Montoya-El Paso Group. This letter is in response to that request.

It is my understanding that the current Class V injection authorization prohibits injecting water that does not meet primary drinking water standards. A summary of concentrate water quality provided to me by EPWU indicates that the concentrate from the KBH plant exceeds the water quality standard of 10 ppb for arsenic. However, the groundwater at the injection site also exceeds the 10 ppb water quality standard for arsenic. Furthermore, the groundwater exceeds the drinking water standard for several other water quality parameters, including TDS, nitrite, gross alpha, and radium. Thus, in order for that groundwater to serve as a future source of drinking water supply, it would have to be subjected to rigorous treatment to remove the contaminants that are already there, including arsenic. Therefore, it appears to me that the injection of the concentrate from the KBH plant will not render the groundwater either less treatable or more costly to treat than it already is (in fact, it might do the reverse through dilution). In any case, I would be glad to discuss this matter with you if you so desire. You can call me at work at (915) 747-6915 or on my cell phone at (915) 667-1155.

Sincerely,

A handwritten signature in cursive script that reads "Anthony J. Tarquin". The signature is written in black ink and is positioned above the printed name and title.

Anthony Tarquin, Ph.D.
Professor - Civil Engineering/Science Engineering
The University of Texas at El Paso



AACE
Alumni Academy
of Civil Engineers

500W. University Ave.
El Paso, Texas
79968-0516
(915) 747-5464
FAX: (915) 747-8037



Anthony Tarquin, Ph.D.

Professor-Civil Engineering
Engineering/Science Complex
Engineering Bldg., Room A220
atarquin@utep.edu
(915)747-6915

Dr. Tarquin's main area of research is Environmental Engineering, while still involved in: Economic Optimization of Water/Wastewater treatment processes, Water conservation/wastewater recycling, Water/Wastewater desalting.

Dr. Anthony Tarquin has completed numerous research projects related to industrial wastewater treatment, domestic wastewater treatment, and small waste flows. Recently, Tarquin's projects have dealt with brackish water desalting and volume reduction of silica-saturated RO concentrates. These projects focus on the concern of water resources in arid environments, optimizing conservation, and any associated economic matters. In the past, Tarquin has studied methods of teaching to help improve the way students learn.

Located at The University of Texas at El Paso, the **Center for Inland Desalination Systems (CIDS)** is a newly formed center that is studying desalination-related issues as:

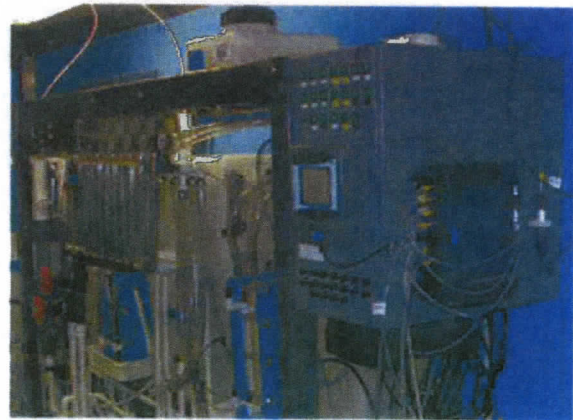
- mining the brine concentrate produced during the Reverse Osmosis (RO) process
- developing small-scale portable desalination equipment to be used in remote locations
- developing processes that maximize energy and water production efficiencies

CIDS builds on a strong foundation of related research already being done by faculty members in geological sciences, chemistry and civil engineering. CIDS funding is currently a combination of a \$2 million grant from the state of Texas through its Emerging Technology Fund, \$2 million from The University of Texas System, and matching funds raised by UTEP (goal is \$2 million in sponsored research from industry partners).

CIDS has several regional partners, including the El Paso Water Utilities Public Service Board, which manages the largest inland desalination facility in the United States. The 27.5 million gallon per day desalination facility is a partnership between the city of El Paso and the Fort Bliss army base. The five-year agreement approved by the Board includes creation of a Center for Excellence in research, education and outreach related to water resource management and inland desalination. Other partnerships include the Consortium for Hi-Technology Investigations in Water and Waste Water (CHIWAWA) and Veolia Water Solutions and Technologies.

Current research direction at CIDS include seawater pilot demonstrations in Libya and highly efficient brackish desalination pilot demonstrations and research in New Mexico, California, Texas, and Florida. CIDS plans to research technologies and approaches that will maximize the benefits of desalination, while minimizing the input energy and negative environmental impacts.

CIDS is in the process of developing an extensive website. For further information, contact:



Above: One of three portable equipment "skids" available for research. Pictured here is the electro dialysis-metathesis (EDM) portion of the Zero Discharge Desalination (ZDD) technology, invented by Dr. Tom Davis. EDM technology is added to a reverse osmosis system for highly efficient desalination, improving efficiencies from 75% to more than 90%.

Center for Inland Desalination Systems
500 West University Ave
Burges Hall, Room 216
El Paso, TX 79902
Phone: (915) 747-5328
CIDS@utep.edu